MID- AND FAR-INFRARED SPECTROSCOPY OF ICES: OPTICAL CONSTANTS AND INTEGRATED ABSORBANCES

D. M. HUDGINS, S. A. SANDFORD, L. J. ALLAMANDOLA, AND A. G. G. M. TIELENS

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ABSTRACT

Laboratory spectra through the mid-infrared (4000 to 500 cm⁻¹ [2.5–20 μ m]) have been used to calculate the optical constants (n and k) and integrated absorption coefficients (A) for a variety of pure and mixed molecular ices of relevance to astrophysics. The ices studied were H_2O , CH_3OH , CO_2 , OCS, CH_4 , $CO_2 + CH_4$, $CO_2 + CCS$, $CO_3 + CCS_4$, CCS_4 ,

Subject headings: line: identification — molecular data

1. INTRODUCTION

Accurate optical constants are extremely useful in any field of scientific research where radiative transfer through solid materials is of importance. Much of our understanding of the universe is determined by the interaction of light with solid matter. Apart from the fundamental insight these constants provide into the interaction of light with matter on a microscopic scale, the real (n) and imaginary (k) indices of refraction of materials, as well as individual band strengths, can be of great practical importance. While the optical constants of gases, liquids, and room temperature solids have been the subject of many studies, those of ices have not, because of the difficulties inherent in making these measurements. Yet the optical properties of ices can be very important for astrophysical applications. For example, ices play a large role in determining global weather patterns by controlling the amount of radiant energy striking the Earth's surface versus that dissipated among the icy particles in the atmosphere. Similar important roles are played by the interaction of light with icy aerosols and surfaces on other objects in the solar system (Klinger et al. 1985; Cruikshank & Brown 1993). For example: (i) the Martian polar caps are thought to be H₂O- and CO₂-rich ices (Pollack & Toon 1982); (ii) most of the satellites of Jupiter and Saturn contain H₂O-rich ices, except for Io, which is dominated by frozen SO₂ (Burns & Matthews 1986); (iii) Neptune's satellite Triton shows evidence for N₂-, CO-, CH₄-, and perhaps CO₂-containing ices (Burns & Matthews 1986); (iv) the ices in the Pluto/Chiron system appear to contain H₂O and CH₄ (Cruikshank & Brown 1993); and (v) comets are known to be mixtures of molecular ices and minerals (Wilkening 1982). Farther from home, small ($<0.3 \mu m$) icy interstellar grains regulate radiative energy transfer within interstellar clouds and hence determine their energy balance and spectra. In this way, these grains influence such fundamental processes as star formation and cloud evolution (Hollenbach & Thronson 1987). Among the molecules identified in such

icy grain mantles are H_2O , CH_3OH , CO (Tielens 1989), CH_4 (Lacy et al. 1991), and possibly OCS (Geballe et al. 1985). Our solar system is thought to have formed from such a dense cloud, and it is generally believed that interstellar icy grains are the building blocks of comets (Burns & Matthews 1986).

The interpretation of the data from all of these very different environments and understanding of their significance to processes as wide-ranging as determining the Earth's climate, the history of the solar system, or the chemistry of the interstellar medium require that one know how these ices interact with light. Airborne, as well as Earth-based and orbiting, observatories take data which require this information for analysis. For example, the infrared spectra of many of these objects are produced by a superposition of effects due to absorptions and reflections from ices and their surfaces. Interpretation of the spectra require the application of fully developed models such as those associated with Hapke theory (Hapke 1981) and Mie theory (van de Hulst 1981; Bohren & Huffman 1983), which, in turn, requires a knowledge of the n and k values appropriate for the ices being studied.

The infrared spectra of atmospheric aerosols as well as microscopic grains of interstellar dust in dense molecular clouds are dominated by ice absorption features. A quantitative interpretation of these data requires detailed comparison with laboratory data. Unfortunately, the direct comparison of spectra is hampered by the fact that the experimental studies are necessarily done on thin films, while the measurements are associated with small particles ($<0.3 \mu m$ in the case of interstellar dust grains). The interaction of light with small particles can be quite different from that with bulk films, resulting in differences between the profiles of absorption features between the laboratory spectra and the interstellar spectra. Several major effects are often seen (Hapke 1981; van de Hulst 1981). First, when the particle size, a, is comparable to the wavelength, λ (i.e., $a \approx \lambda/2\pi$), scattering effects become important. In general, this can lead to the presence of a scattering wing on the long-wavelength side of a band which could mistakenly be attributed to additional absorption. Second, in the neighborhood of a strong transition, surface modes can completely dominate the spectral profile. These surface modes can lead to appreciable frequency shifts and intensity enhancements of an absorption feature. Moreover, they may lead to the presence of multiple peaks in a small-particle spectrum where the bulk film shows only a single feature. An example of these effects in interstellar CO-containing ices can be found in Tielens et al. (1991).

Theoretical calculations of these small-particle effects require knowledge of the real and imaginary parts of the index of refraction. A few laboratory studies of astrophysically relevant ice mixtures have been reported in the literature (Hagen, Tielens, & Greenberg 1981, 1983; Leger et al. 1983; d'Hendecourt & Allamandola 1986; Sandford et al. 1988; Tielens et al. 1991; Sandford & Allamandola 1991). Generally, these studies present only the integrated strength of absorption features. In a few cases, the index of refraction was determined, often only at a single temperature or over a limited spectral range.

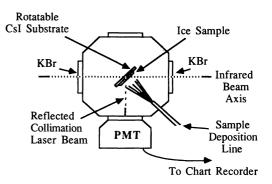
Here we report the complete index of refraction (n and k) of a large number of ices over a wide range of temperatures. These ices include pure materials as well as mixtures that are relevant to interstellar, planetary, and terrestrial environments. The ice samples and their concentrations were chosen to reflect those species and their relative abundances that are known or expected to be found in the solar system and/or the interstellar medium. The pure icy materials studied were H₂O, CH₃OH, CH₄, CO₂, and OCS. The binary mixtures studied were $H_2O:CH_4 = 20:1$, $CO:CH_4 = 20:1$, $CO_2:CH_4 = 20:1$, N_2 :CH₄ = 20:1, O_2 :CH₄ = 20:1, H_2 O:OCS = 2:1, H_2 O:OCS = 20:1, CO:OCS = 20:1, $CO_2:OCS = 20:1$, $N_2:OCS = 20:1$, and O_2 :OCS = 20:1. Finally, the ices H_2O :C H_3OH :CO:N H_3 = 100:50:1:1 and $H_2O:CH_3OH:CO:NH_3 = 100:10:1:1$ (hereafter referred to as the strong and weak interstellar mixes, respectively) were chosen to reproduce the ices in interstellar clouds and to bracket the solid state methanol abundances reported for the interstellar medium (Tielens & Allamandola 1987; Grim et al. 1991; Allamandola et al. 1992).

This paper is organized as follows. The experimental procedures are presented in some detail in § 2. In § 3 the method used to calculate the values of n and k is described. The technique used to deduce the integrated absorbance values (A) of observed absorption features is described in § 4. In § 5 particulars about each individual ice are given. Last, the tables of A values and the calculated n and k values are presented.

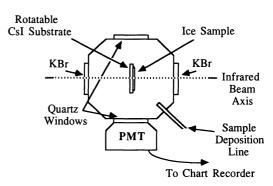
2. EXPERIMENTAL PROCEDURES

2.1. General Description

The apparatus used to prepare and study the ice samples in these experiments was slightly modified from that previously used for interstellar and cometary ice analogs (Allamandola, Sandford, & Valero 1988). A schematic of the sample chamber is shown in Figure 1. An infrared transmitting substrate is suspended on an infrared window inside a high-vacuum chamber and cooled by a closed-cycle helium refrigerator. The vacuum chamber is equipped with multiple inlet ports, and the cooler is mounted in such a way that the infrared window can be rotated to face any of these ports without breaking the vacuum. In a typical experiment, the window is



a. Sample Deposition Configuration



b. Spectrum Collection Configuration

FIG. 1.—Schematic of the vacuum chamber and sample holder used in these studies. The two pictures show the system in the configurations used (a) during sample deposition and (b) during infrared spectral measurement

cooled to 10 K and rotated to face the beam of an infrared spectrometer. A "background" spectrum is then taken of the blank window, after which the cold window is rotated to face the sample inlet port. Ice samples are made by depositing a suitable gas mixture through this port and onto the cold substrate. The ice sample is again rotated to face the beam axis of an infrared spectrometer, and a transmission spectrum is recorded. The sample is subsequently warmed in a stepwise fashion to the sublimation temperature of the ices' main constituent. At each step, the ice is allowed to thermally equilibrate at least 10 minutes before an additional infrared spectrum is recorded. Specific aspects of this generalized procedure are considered in more detail in subsequent sections.

2.2. Gas Sample Preparation

All the individual sample components used for these experiments either were gaseous or possess a significant vapor pressure at room temperature. Gas mixtures were prepared by combining the constituent compounds in their desired molar ratio in a volume-calibrated, greaseless, glass vacuum manifold and glass sample bulb. The system is evacuated through an oil diffusion pump (Edwards Diffstack Series 63M) backed by a rotary mechanical pump (Edwards E2M2). Backstreaming of pump oil into the sample system is prevented by a liquid nitrogen cold trap located between the manifold and the

pumps. The pressure in the system can be monitored over a wide range by an ion gauge, a thermocouple gauge, two diaphragm manometers (0-1 bar and 0-0.1 bar), and a silicone oil manometer. The manifold is wrapped with heating tape to facilitate bakeouts (under vacuum) to clean the system between samples. The sample preparation system routinely operated in the 10⁻⁵ mbar range. Since the partial pressures of mixture components typically fell in the 1-100 mbar range, sample contamination from the vacuum system was limited to one part in 10⁵-10⁷. The compounds used and their purities were as follows: CH₃OH (liquid), Fisher Photrex grade, 99.98% purity; CH₄ (gas), Matheson U.H.P., 99.97% purity; CO (gas), Matheson C.P., 99.5% purity; CO₂ (gas), Matheson Bone Dry, 99.8% purity; H₂O (liquid), triply distilled; NH₃ (gas), Matheson Anhydrous, 99.99% purity; N₂ (gas), Airco Dry, 99.9% purity; OCS (gas), Matheson, 97.5% purity; O₂ (gas), Matheson Extra Dry, 99.6% purity.

2.3. The Sample Chamber

The ice samples were prepared and their spectra measured in a stainless-steel vacuum system. This system consists of a large manifold with Viton O-ring seals evacuated by an oil diffusion pump (Edwards Diffstack Series 100M) backed by a mechanical pump (Edwards E2M5). A liquid nitrogen trap between the mechanical and diffusion pumps prevents the mechanical pump oil from contaminating the system. Ion and thermocouple gauges attached to the manifold allow continuous monitoring of the internal pressure. At room temperature, the system typically operated at a pressure of 1×10^{-7} mbar. With the sample finger and its protective cold shield cooled to $10~\rm K$, the system pressure was near 2×10^{-8} mbar above the diffusion pump. The pressure at the sample was considerably lower.

The sample finger resides at the end of a manifold in a vacuum head which contains four major ports, situated at 90° with respect to one another, that can be utilized for a variety of applications. The substrate, an infrared transmitting window, is suspended from a cold finger in the center of the vacuum head and can be rotated through a full 360° to face any of the ports without breaking vacuum. Vacuum windows, mounted over opposing ports, allow the infrared spectrum of the sample to be measured. The substrate and vacuum windows used for these experiments depended on the application. A CsI substrate and KBr vacuum windows were used in the mid-infrared, while polyethylene was employed throughout for the far-infrared region. The temperature of the substrate is controlled by a water-cooled, closed-cycle helium refrigerator (Air Products Displex CSW 202). The minimum substrate temperature attainable with this system was 9-10 K for CsI windows and 16-18 K for polyethylene windows. A small resistive heater, mounted on the cold finger just above the substrate and operated by a programmable controller, allows the substrate temperature to be maintained or changed in a controlled fashion from the low-temperature limit to room temperature. The temperature of the substrate is monitored with an absolute accuracy of ±1 K using an Fe-Au/chromel thermocouple pressed into the indium gasket between the window and its holder. The temperature of the coldest part of the cryostat is also monitored using an identical thermocouple. This is calibrated against the vapor pressure of hydrogen in a closed capillary tube which is also mounted on the cryostat.

2.4. Ice Sample Preparation

Once the gas sample bottle was mounted on the vacuum manifold and the substrate was cooled to 10 K, the cold window was rotated to face the sample inlet port (Fig. 1). A modified microflowmeter tube (Gilmont, tube F3000) was used to regulate the rate at which the sample gas was deposited on the cold substrate. Samples for these experiments were typically deposited at a rate of a few hundredths of a millimole per hour, corresponding to several microns per hour in thickness. Since the diameter of the infrared beam at the substrate is small (\approx 4 mm) compared with the sample size (\approx 1.5 cm), the ice layer can be treated as planar. Typical sample thicknesses in the mid-infrared were $0.5-1.0 \mu m$, while in the far-infrared (where the absorption features are weaker) thicknesses ranged from 5 to 10 μ m. The thicknesses of the ice samples were measured by monitoring the temporal variation in the intensity of a HeNe laser beam reflected from the surface of the substrate during deposition. This was accomplished by mounting a photomultiplier tube (Hamamatsu model R955) on the vacuum head such that, with the cold window in its deposition configuration, the intensity of the reflected beam of the spectrometer's internal collimation laser could be monitored (see Fig. 1). The output of the photomultiplier tube was directed to a strip chart recorder (Kipp & Zonen model BD41), so that the interference fringes could be monitored and recorded. The number of interference peaks in the intensity pattern, m, is directly related to the ice's thickness by the equation

$$d = (m\lambda_0)/(2n_{\rm ice}\cos\theta_{\rm ice}), \qquad (1)$$

where d is the ice thickness (μ m), λ_0 is the wavelength of the HeNe laser beam (0.6328 μ m), $n_{\rm ice}$ is the visible index of refraction of the ice, and $\theta_{\rm ice}$ is the angle of reflection within the ice sample.

2.5. Measurement of Infrared Spectra

The entire sample head of the vacuum system sits in the sample compartment of a Nicolet 740 Fourier transform infrared spectrometer and is positioned so that the infrared beam axis passes unobstructed through the centers of the cold window and two opposing vacuum windows. Once an ice sample was prepared, it was rotated to face the windows through which the infrared beam of the spectrometer passes. The infrared absorption spectra presented here were recorded using two separate optical setups for the mid- and far-infrared. Mid-infrared spectra were obtained by summing 500 scans (interferograms) using a liquid nitrogen-cooled, mercury-cadmium-telluride detector (Nicolet MCT-B) and a KBr beam splitter. The spectral resolution, as defined by the width of an unresolved line, was 0.9 cm⁻¹ over the 4000 to 400 cm⁻¹ (2.5-25 μ m) region. Far-infrared spectra from 675 to 50 cm⁻¹ (14.8–200 μm) were recorded using a DTGS detector and Nicolet far-infrared beam splitter. Due to lower detector efficiency and lower energy throughput in the far-infrared, the spectra in this region represent the sum of 1000-2000 scans and were taken at a lower spectral resolution (1.8 cm⁻¹). Spectra in the far-infrared are presented only for those samples which showed appreciable absorption features in this region. The overlap between the mid- and far-infrared spectra (675 to 400 cm⁻¹)

allowed corresponding spectra to be reliably knitted together into a single spectrum.

We adhered to a uniform protocol for the collection of spectral data throughout our experiments. First, the substrate was cooled to 10 K (16 K in the far-infrared) and allowed to equilibrate for at least 10 minutes. Since the infrared spectrometer used for these experiments was a single-beam instrument, it was necessary to record a blank background spectrum of 1000 scans (2000 scans in the far-infrared) prior to ice deposition. The number of scans of which the background spectrum was comprised was always chosen to equal or exceed the number of scans in the ice spectrum. Thus, the noise level in the final ratioed spectrum was controlled by the noise in the ice singlebeam spectrum. After rotating the head to the deposition position and laying down an ice as outlined in § 2.4, the head was returned to the scan position and the ice spectrum was recorded. The sample spectrum was then ratioed to the background spectrum to yield the single-beam transmission spectrum. The substrate was then warmed at a rate of 2 K minute⁻¹ to the next temperature (the specific temperatures chosen for each ice are given in §§ 5.1-5.18). After achieving the desired temperature, the substrate was allowed to equilibrate for at least 10 minutes before another spectrum was recorded. Because the blank background spectra did not depend on substrate temperature, all the sample spectra were ratioed to the 10 K (16 K) background spectrum recorded at the beginning of each experiment. The procedure of alternate warm-up and spectral measurement was repeated until the temperature at which the primary ice constituent began to sublime was reached. After the experiment, the individual spectra were reviewed, and optical constants were calculated for each temperature at which the spectra showed an appreciable change from the previous temperature step.

3. OPTICAL CONSTANTS

3.1. Calculating the n and k Values

The optical constants were determined using a Kramers-Kronig analysis (Bergmen et al. 1978) of the transmission spectra. Consider a plane-parallel absorbing film of thickness h and complex index of refraction n = n + ik, where n and k are the real and imaginary parts of the index of refraction. The film is situated between two media of refractive index n_0 (vacuum) and n_2 (CsI or polyethylene). For light of normal incidence, the ratio of the transmitted intensity when the film is present to that when the film is absent is given by

$$\frac{I}{I_0} = \left| \frac{e^{ix} t_{01} t_{12} / t_{02}}{1 + r_{01} r_{12} e^{2ix}} \right|^2 = e^{-\alpha h} \left| \frac{t_{01} t_{12} / t_{02}}{1 + r_{01} r_{12} e^{2ix}} \right|^2, \quad (2)$$

where $x = (2\pi/\lambda)hn$, λ is the wavelength in microns, and the Lambert absorption coefficient α is given by

$$\alpha = (4\pi/\lambda)k \,, \tag{3}$$

The complex reflection and transmission coefficients r_{pq} and t_{pq} of the pq boundary are given by the formulae

$$r_{pa} = (n_p - n_a)/(n_p + n_a), \quad t_{pa} = 2n_p/(n_p + n_a).$$
 (4)

Rearranging equation (2), we find for the absorption coefficient

$$\alpha = \frac{1}{h} - \ln\left(\frac{I}{I_0}\right) + \ln\left|\frac{t_{01}t_{12}/t_{02}}{1 + r_{01}r_{12}e^{2ix}}\right|^2.$$
 (5)

Given the absorption coefficient, we can calculate n from the Kramers-Kronig dispersion relation

$$n(\nu) = 1 + \frac{1}{2\pi^2} \int_0^\infty \frac{\alpha(\nu')}{\nu'^2 - \nu^2} d\nu'.$$
 (6)

The calculation of n involves, in principle, knowledge of the absorption coefficient over the entire electromagnetic spectrum. However, since electronic and vibrational transitions are well separated in frequency, the former produces only a constant contribution throughout the infrared. Equation (6) can then be written as

$$n(\nu) = n_0 + \frac{1}{2\pi^2} \int \frac{\alpha(\nu')}{\nu'^2 - \nu^2} \, d\nu' \,, \tag{7}$$

where n_0 is the value of n at the high-frequency end of the infrared, and the integration is now only over the infrared region of the spectrum. For the n_0 values of our samples we have used reported values for the visible refractive index of the sample ice at the D lines of atomic Na ($\lambda = 589$ nm). For ices dominated by CO₂, N₂, O₂, and CH₄ we have used values of $n_0 = 1.22, 1.22, 1.25,$ and 1.33, respectively (Hallam & Scrimshaw 1973). A value of $n_0 = 1.33$ was used for our CH₃OH ices. This value was estimated from the value of n_0 for liquid CH₃OH ($n_0 = 1.326$; Weast 1972). A value of $n_0 = 1.24$ was used for ices dominated by OCS. This value was estimated from the value of liquid OCS at -87° C ($n_0 = 1.24$; Grasselli & Ritchey 1975). The value to be used for ices dominated by H₂O is somewhat problematic. Since H₂O ice has many amorphous and crystalline forms, it is not surprising that reported values of n_0 vary (from about 1.26 to 1.35). We have used a value of $n_0 = 1.32$ for H₂O-rich ices. We used $n_0 = 1.30$ for ices dominated by CO, a value consistent with that measured at 1000 cm^{-1} by Jiang, Person, & Brown (1975).

The computational procedure used to determine the complex refractive index was as follows. Assuming a starting value for $n = n_0 = n_{\text{(NaD)}}$ at all frequencies, we calculated the absorption coefficient from equation (5) and the imaginary part of the refractive index from equation (3). Using equation (7) we then computed the real part of the refractive index. We then used the resultant n and k values to compute a synthetic spectrum which was, in turn, compared with the real spectrum. This iterative process was repeated, using the new n values generated in the previous step, until the calculated transmissivity (eq. [2]) differed nowhere from the measured value by more than 0.1%. The number of iterations required to fulfill this requirement depended on the number, strength, and width of the absorption features within the spectrum. It ranged from about 10-20 iterations for the H₂O-dominated ices, which are characterized by broad absorptions, to more than 100 iterations for the CO₂:OCS ice mixture, which had much sharper bands. The correct operation of the program was initially checked by comparing our results against values already reported in the literature. Since it was necessary to compare against ices having the same composition, temperature, and thermal history, we were restricted to comparisons with values for H₂O (Bertie, Labbe, & Whalley 1969; Hagen et al. 1981; Leger et al. 1983), CO₂ (Wood & Roux 1982; Warren 1986), CO (Roux et al. 1980), and CH₄ (Roux et al. 1980; Pearl et al. 1991). In all cases, good agreement was obtained between the calculated values and those found in the previously published literature.

The absolute accuracy of the calculated optical constants is limited mainly by the accuracy of the measured sample thickness h and of the assumed value of the visible refractive index n_0 of the amorphous ice sample. The measured values of h for our mid-infrared samples are accurate to within 5%. Uncertainty in the adopted values for n_0 is due to the effect of the residual dispersion of the ultraviolet contributions to n_0 between the visible and 4000 cm⁻¹ and the dependence of n_0 on the temperature and crystal structure of the sample. The effect of the above errors would be to impose a global vertical shift on the resultant optical constants. For a given choice of n_0 , however, it is possible to run the iteration process until the synthetic and measured spectra match to within an arbitrarily small amount (0.1% in the case of our studies). Hence, we estimate the maximum absolute uncertainty in the calculated optical constants in the mid-infrared to be about 5% (due mainly to the uncertainty in h). Since the far-infrared spectra are scaled to the mid-infrared spectra (see § 5), the absolute error in the far-infrared is expected to be worse. However, the relative error between adjacent n and k pairs in both the midand far-infrared for a specific data set is closer to 0.1%.

3.2. The Spectral Baseline

Reflections generated at each of the optical interfaces in the system interfere constructively and destructively within the infrared beam as it passes through the vacuum head. Most of these effects cancel out when the sample spectrum is ratioed with the background spectrum, since most of the interfaces in the optical path are present in both spectra. Two interfaces whose effects do not cancel, however, are those between the sample and the sample window and between the sample surface and the vacuum. Interference due to multiple reflections within the sample is manifested as a broad oscillation in the spectral baseline. Depending on sample thickness and index of refraction, this oscillation will pass through anywhere from a fraction of a period to several periods across the spectrum. When the spectrum is used to calculate optical constants, it is necessary to account for this effect in one of two ways.

Since the effect depends on the index of refraction of the sample, it should be possible, in principle, to let the program attempt to fit the entire raw spectrum from first principles. Indeed, these oscillations are implicitly present in equation (2). However, there are several problems with this approach. First, the thickness of the ice layer is known only to within about 5%. This approach also does not account for wavelength-dependent scattering losses from the ice layer during transmission, internal reflections within the cold window, or small errors in positioning the ice layer perpendicular to the infrared beam after deposition. Although all of these effects are

subtle, the resultant period and amplitude of the baseline oscillation in the actual experimental data may differ slightly from that inferred by the program. Hence, the program will interpret these deviations as broad "emission" or "absorption" features in the spectrum. As a result, the program will derive small, nonzero values for k across much of the spectrum to account for these artificial features. Since the computed value for k depends on an integral of k values around the wavelength of interest, such errors will result in a quasi-systematic error in the computed k values. Hence, it is generally not practical to use the program to compensate for all the factors associated with the baseline deviation.

A second, more practical technique, involves baseline correction of the raw spectra before they are used to derive optical constants. Using the tilt and bend functions provided by the operating system of our spectrometer, baselines for all the spectra were flattened and set to 100% transmittance. The n and k calculation program was then modified to calculate the oscillation expected for the given sample thickness, and this was added to the flattened spectrum prior to calculating the optical constants. Obviously, the major problem with this approach is that the choice of the baseline is somewhat subjective. In practice, however, this was not generally a problem. Many of the experimental spectra were composed of only sharp features (the spectra of CO:CH₄ or CO₂:OCS, for example), which were easily distinguishable from the baseline oscillation. The most challenging ice spectra for this type of treatment were those containing large amounts of H₂O and/or CH₃OH, both of which exhibit broad features of various strengths throughout much of the infrared. In these cases, the point of maximum transmittance between each of the absorption bands was tied to the baseline. The validity of this approach is established (1) by the good agreement between the optical constants we calculate for CH₄, CO, CO₂, and H₂O, and those arrived at by other workers, as noted previously, and (2) by the match between the optical constants derived using this technique and those derived (in a few test cases) using the first technique.

4. INTEGRATED ABSORBANCE VALUES

Integrated absorbance values (A) for many bands in the spectra shown in Figures 2–19 are given in Table 1. These can be used to estimate column densities of ice constituents from the absorption spectra of the ice. Detailed discussions of the quantitative analysis of infrared absorption bands can be found elsewhere (Gribov & Smirnov 1962; Wexler 1967; Pugh & Rao 1970; Person 1981). Since the various definitions of infrared band intensities are considered in detail in these papers, they are not discussed here. Similarly, a detailed discussion of the specific application of the integrated absorbance A to the interpretation of astronomical infrared absorption spectra and the determination of column densities is not presented here, as the topic has been presented elsewhere (cf. d'Hendecourt & Allamandola 1986). The technique used to determine these A values from the absorbance spectra shown in Figures 2–19 will, however, be briefly summarized here.

The A values listed in Table 1 were calculated from

$$A = N^{-1} \int \tau \ d\nu \ , \tag{8}$$

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where N is the column density of absorbing molecules (the number of absorbers per unit area) in the beam, $\tau = \ln (I_0/I)$, and the individual integrated band peak areas were determined using a program provided by Nicolet. These values, given in base 10 by the spectrometer, were multiplied by 2.303 to convert them to base e. The largest uncertainty in the derived A values is associated with the uncertainty in the number of absorbers in the sample beam because the densities of most of the ices studied, and the effects of structural changes on these densities as the ices undergo thermal cycling, are not known. We have assumed that the densities of all the ices are 1 g cm⁻³ and that the ices are uniformly thick across the approximately 4 mm diameter focal point of the spectrometer's infrared beam on the sample. We estimate that, for most samples, these assumptions may result in uncertainties no larger than 30%. The column density of the sample is obtained by multiplying the density by the thickness h and the number of molecules per gram of ice. The latter is simply Avogadro's number divided by the molecular weight of the ice. In the case of a component in a mixed molecular ice, the weighted average molecular weight was used, corrected by the concentration of that component. The thicknesses h of each sample are given in §§ 5.1–5.18.

5. SPECIFIC EXPERIMENTS

Far-infrared spectra and calculated optical constants are presented here only for those ices from which we measured significant absorption features in the 675 to 50 cm⁻¹ spectral region. These ices include the pure H₂O, pure CH₃OH, $H_2O:CH_3OH:CO:NH_3 = 100:50:1:1$ (strong interstellar mix), and H₂O:CH₃OH:CO:NH₃ = 100:10:1:1 (weak interstellar mix) samples. To knit the mid- and far-infrared spectra together, the absorption intensities of the features in the far-infrared were scaled by the ratio of the mid-infrared sample thickness to the far-infrared sample thickness deduced from the flow rate (it was not possible to use the laser interference technique with the polyethylene windows). The far-infrared spectrum was then shifted in transmittance to give the best agreement between the two spectra through the overlap region (675 to 400 cm⁻¹). The data through the overlap region were then averaged, and the average values were used to piece the two spectra together. Then, as was the case for the mid-infrared region, the baseline in the far-infrared region of the composite spectrum was flattened by shifting the point of minimum absorbance between the mid- and far-infrared features to zero. Specific details pertinent to the analysis of each ice mixture, beginning with those for which far-infrared data are included, are presented in the following sections.

Because of space considerations, we will not present complete tabular listings of all the optical constants we have derived. Instead, we present optical constants for our ices only for those temperatures at which the spectral properties of the ice change substantially relative to lower temperatures. In addition, we do not list all the points we calculated for each ice spectrum, but instead we have "thinned" the tables to include fewer points in regions where the values of n and k are not changing rapidly. It is hoped that a listing of all the points for all the ices will be made available on electronic media as a part of the Astrophysical Journal Supplement Series in the near future.

5.1. $H_2O:CH_3OH:CO:NH_3 = 100:10:1:1$ (Weak Interstellar Mix; Fig. 2, Tables 2A-2F)

Spectra spanning the 4000 to 400 cm⁻¹ region of the weak interstellar mix were collected at temperatures of 10, 40, 80, 100, 120, and 140 K. Far-infrared spectra covering the 675 to 50 cm⁻¹ region were recorded for the 10, 100, and 140 K ices. The ice sample for the mid-infrared spectra was deposited at a rate of 4.2 μ m hr⁻¹ to a thickness of 0.56 μ m. The far-infrared sample was deposited at a rate of 6.3 μ m hr⁻¹ to an estimated thickness of 1.1 μ m. Optical constants were calculated at a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) over all the spectra. This was sufficient to resolve all of the spectral features

In the spectra, the appearance of a shoulder ($\sim 1035 \text{ cm}^{-1}$) on the 1020 cm⁻¹ methanol band was observed at 80 K. This was indicative of a change in the ice structure resulting in the appearance of a second distinct site in which the CH₃OH molecules could reside. Continued warm-up resulted in further conversion of the ice to the new structure. By 120 K, the peak was split with the 1035 and 1020 cm⁻¹ features now of comparable intensity. By 140 K, the 1035 cm⁻¹ feature was dominant, indicating nearly complete conversion of the ice to its new structure. A structural change between 120 and 140 K was also indicated by the appearance of structure in the O-H stretching region (\sim 3300 cm⁻¹) and the sharp onset of splitting in the far-infrared feature near 220 cm⁻¹. These changes probably reflect the transformation from an amorphous ice to a type II clathrate structure containing CH₃OH and encapsulations of pure methanol excluded from the clathrate during formation (Blake et al. 1991).

5.2. $H_2O:CH_3OH:CO:NH_3 = 100:50:1:1$ (Strong Interstellar Mix; Fig. 3, Tables 3A-3F)

Spectra spanning the 4000 to 400 cm⁻¹ region of the strong interstellar mix were collected at temperatures of 10, 40, 80, 100, 120, and 140 K. Far-infrared spectra covering the 675 to 50 cm⁻¹ region were recorded for the 10, 100, and 140 K ices. The ice sample for the mid-infrared spectra was deposited at a rate of 4.2 μ m hr⁻¹ to a thickness of 0.56 μ m. The far-infrared sample was deposited at a rate of 8.4 μ m hr⁻¹ to a thickness of 1.1 μ m. The resolution of the optical constants calculated for all the spectra was 2 cm⁻¹ (one point every 1 cm⁻¹).

Once again, in the spectra of this ice, a shift from the original residence site of the methanol molecules to a second distinct site is observed between 80 and 140 K as reflected in the 1020 cm⁻¹ feature. This is also consistent with the formation of a type II H₂O:CH₃OH clathrate structure, as Blake et al. (1991) observed this clathrate to form whenever CH₃OH was present at concentrations of 7% or greater relative to H₂O. In addition, a gradual blending of the features in the 2800–3600 cm⁻¹ region (O—H stretch) is observed over the course of the warmups. The onset of crystallization was indicated by the sharpening and appearance of structure in several of the spectral features at 140 K.

5.3. CH₃OH (Fig. 4, Tables 4A-4E)

Spectra spanning the 4000 to 400 cm⁻¹ region of pure CH₃OH ice were collected at temperatures of 10, 50, 75, 100, and 120 K. Far-infrared spectra covering the 675 to 50 cm⁻¹

region were recorded for the 10, 100, and 120 K ices. The ice sample for the mid-infrared spectra was deposited at a rate of $6.7 \,\mu\text{m} \,\text{hr}^{-1}$ to a thickness of $0.56 \,\mu\text{m}$. The far-infrared sample was deposited at the same rate to a estimated thickness of $1.1 \,\mu\text{m}$. Optical constants were calculated with a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) over the entire spectrum from 4000 to $50 \,\text{cm}^{-1}$ (the $50 \,\text{and} \, 75 \,\text{K}$ spectra were measured only to $400 \,\text{cm}^{-1}$). The transformation from amorphous to crystalline methanol between 100 and 120 K was clearly reflected by the dramatic sharpening of bands throughout the spectrum and in the splitting of the O—H stretching feature around

 3200 cm^{-1} .

5.4. H₂O (Fig. 5, Tables 5A-5F)

Spectra spanning the 4000 to 400 cm⁻¹ region of pure H_2O ice were collected at temperatures of 10, 40, 80, 100, 120, and 140 K. Far-infrared spectra covering the 675 to 50 cm⁻¹ region were recorded for 10, 100, and 140 K ices. The ice sample for the mid-infrared spectra was deposited at a rate of $2.6~\mu m$ hr⁻¹ to a thickness of $0.41~\mu m$. The far-infrared sample was deposited at the same rate to a estimated thickness of $1.1~\mu m$. Optical constants were calculated with a resolution of $4~cm^{-1}$ (one point every $2~cm^{-1}$) between 500 and 50 cm⁻¹. The resolution of the n and k values between 4000 and 500 cm⁻¹ is 8 cm⁻¹ (one point every $4~cm^{-1}$). The gradual change in the spectrum that occurs between 100 and 140 K (a gradual sharpening of the features and the appearance of structure in the "3300" cm⁻¹ O-H stretching band) can be attributed to the transition from amorphous to cubic crystalline ice.

5.5. CH₄ (Fig. 6, Tables 6A-6C)

Spectra spanning the 4000 to 400 cm⁻¹ region of pure CH₄ ice were collected for temperatures of 10, 20, and 30 K. The ice sample was deposited at a rate of 5.4 μ m hr⁻¹ to a thickness of $0.03 \mu m$. Optical constants were calculated over the 3700 to 1000 cm⁻¹ range with a resolution of 1 cm⁻¹ (one point every $0.5 \,\mathrm{cm}^{-1}$) across the CH₄ features (3009 and 1301 cm⁻¹) and 2 cm⁻¹ across the rest of the spectrum. This was accomplished by first calculating n and k values across the entire spectrum at a resolution of 2 cm⁻¹. Then, the procedure was repeated at a resolution of 1 cm⁻¹ over limited regions surrounding the spectral features (3700 to 2650 cm^{-1} and 1850 to 1100 cm^{-1}). Afterward, the baselines of these 1 cm⁻¹ subsets were shifted to match that of the original 2 cm⁻¹ data. Finally, these subsets were spliced into the original data to give the final data set. Such a procedure saved a great deal of time in the calculation process.

The 3009 and 1301 cm⁻¹ features were split into multiple components at 10 K. At 20 K the substructure coalesced, leaving uniform profiles which broadened with further warm-up.

Spectra spanning the 4000 to 400 cm⁻¹ region of pure CO₂ ice are presented for temperatures of 10, 30, 50, and 70 K. The ice sample was deposited at a rate of 5.4 μ m hr⁻¹ to a thickness of 0.03 μ m. Optical constants were calculated with a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) across the spectrum.

In the spectrum, both the disappearance of structure in the 2340 cm⁻¹ feature and a sharp increase in the splitting of the

660 cm⁻¹ feature were observed between 10 and 30 K. The splitting of the 660 cm⁻¹ band is due to degeneracy breakdown in the vibrational mode and does not reflect the trapping of CO₂ molecules in two different sites. Between 30 and 70 K only a gradual sharpening of the spectral features was noted.

5.7. OCS (Fig. 8, Tables 8A-8C)

Spectra spanning the 4000 to 400 cm⁻¹ region of pure OCS ice are presented for temperatures of 10, 50, and 60 K. The ice sample was deposited at a rate of 8.4 μ m hr⁻¹ to a thickness of 0.14 μ m. Optical constants over the 3200 to 700 cm⁻¹ region were calculated with a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) across the spectrum.

In the spectrum, an abrupt sharpening of the weak features near 860 cm⁻¹ (symmetric stretch) and 520 cm⁻¹ (O-C-S bend), and a change in the profile of the main 2045 cm⁻¹ asymmetric stretching band, reflected a structural change in the ice sample between 50 and 60 K.

5.8. $CO:CH_4 = 20:1$ (Fig. 9, Tables 9A-9D)

Spectra spanning the 4000 to 400 cm⁻¹ region of a CO:CH₄ = 20:1 ice mixture were measured at temperatures of 10, 15, 20, and 25 K. The ice sample was deposited at a rate of 5.6 μ m hr⁻¹ to a thickness of 0.14 μ m. Optical constants were calculated over the 3500 to 1000 cm⁻¹ region at a resolution of 1 cm⁻¹ (one point every 0.5 cm⁻¹) across the methane features in the spectrum (1500 to 1150 cm⁻¹ and 3300 to 2750 cm⁻¹) and 2 cm⁻¹ (one point every 1 cm⁻¹) elsewhere. This was accomplished by a procedure identical to that used for the analysis of the pure CH₄ ice data. Only a gradual broadening of the spectral features was observed upon warm-up.

5.9. CO:OCS = 20:1 (Fig. 10, Tables 10A-10D)

Spectra spanning the 4000 to 400 cm⁻¹ region of a CO:OCS = 20:1 ice mixture were collected at temperatures of 10, 20, 25, and 30 K. The ice sample was deposited at a rate of 4.2 μ m hr⁻¹ to a thickness of 0.14 μ m. Optical constants were calculated over the 2500 to 1600 cm⁻¹ region with a resolution of 1 cm⁻¹ (one point every 0.5 cm⁻¹) across the spectrum.

In the measured spectra, the OCS asymmetric stretching band at 2048 cm⁻¹ split between 20 and 25 K, giving rise to a secondary component at 2043 cm⁻¹. By 30 K the 2043 cm⁻¹ component was dominant and the profile indicated further underlying structure. In addition, the FWHM of the peak nearly doubled (from 14 to 26 cm⁻¹) between 20 and 30 K.

5.10.
$$CO_2$$
: $CH_4 = 20:1$ (Fig. 11, Tables 11A-11E)

Due to the great disparity between the absorption intensities of the CH_4 bands and that of the CO_2 bands, two sets of spectra spanning the 4000 to 400 cm⁻¹ region of this ice mixture were collected at temperatures of 10, 20, 30, 50, and 70 K. First, spectra of a "thick" sample were measured to obtain a reasonable signal-to-noise level through the relatively weak CH_4 features. This sample was deposited at a rate of 4.2 μ m hr⁻¹ to a thickness of 0.87 μ m. The CO_2 features in this spectrum were saturated. To facilitate accurate measurements of the CO_2 bands, a second, thinner ice sample was prepared and mea-

sured. This thin sample was deposited at a rate of $4.4~\mu m\ hr^{-1}$ to a depth of $0.14~\mu m$. Optical constants were calculated between 3800 and 500 cm⁻¹ with a resolution of 1 cm⁻¹ (one point every $0.5~cm^{-1}$) across the CH₄ features (3009 and 1309 cm⁻¹), and 2 cm⁻¹ (one point every 1 cm⁻¹) across the rest of the spectrum. This was accomplished in a similar fashion to the pure CH₄ calculations. First, optical constants were calculated across the entire spectrum of the thin ice at a resolution of 2 cm⁻¹. Then optical constants were calculated at a resolution of 1 cm⁻¹ over the CH₄ bands (3300 to 2900 cm⁻¹ and 1500 to 1150 cm⁻¹) for the thick ice spectra. These results were then tilted and shifted to match the baseline imposed by the dominant CO₂ features in the thin sample data set, and spliced into those data.

The CH_4 absorption features in the spectra were split, indicating that the methane molecules were in two distinct sites within the ice. This structure remained throughout the warmups. The CO_2 features behaved as did those for the pure CO_2 ice.

5.11. CO₂:OCS = 20:1 (Fig. 12, Tables 12A-12C)

Spectra spanning the 4000 to 400 cm⁻¹ region of a CO_2 :OCS = 20:1 ice mixture are presented for temperatures of 10, 30, and 70 K. The ice sample was deposited at a rate of 6.3 μ m hr⁻¹ to a thickness of 0.07 μ m. Optical constants were calculated at a resolution of 1 cm⁻¹ (one point every 0.5 cm⁻¹) across the main features in the spectrum (2600 to 1900 cm⁻¹ and 800 to 550 cm⁻¹) and 2 cm⁻¹ (one point every 1 cm⁻¹) elsewhere. This was accomplished by a procedure identical to that used for the analysis of the pure CH₄ ice data.

In the spectrum, a shift of 8 cm⁻¹ (from 2047 to 2055 cm⁻¹) and the appearance of a shoulder (2042 cm⁻¹) was noted in the OCS asymmetric stretching band between 10 and 30 K. The intensity of this shoulder decreased between 30 and 70 K.

5.12. $H_2O:CH_4 = 20:1$ (Fig. 13, Tables 13A-13F)

Spectra spanning the 4000 to 400 cm⁻¹ region of an $H_2O:CH_4=20:1$ ice mixture were measured at temperatures of 10, 40, 80, 100, 120, and 140 K. The ice sample was deposited at a rate of 2.8 μ m hr⁻¹ to a thickness of 0.56 μ m. Optical constants were calculated with a resolution of 3 cm⁻¹ (one point every 1.5 cm⁻¹) across the spectrum. The structure observed in the band profiles of pure CH_4 at 10 K was not present in this mixture. The H_2O features and their behavior upon warm-up were essentially unchanged from that of pure H_2O ice.

5.13. $H_2O:OCS = 20:1$ (Fig. 14, Tables 14A-14E)

Spectra spanning the 4000 to 400 cm⁻¹ region of an $H_2O:OCS = 2:1$ ice mixture are presented for temperatures of 10, 40, 100, 120, and 140 K. The ice sample was deposited at a rate of 4.8 μ m hr⁻¹ to a thickness of 0.28 μ m. Optical constants were calculated with a resolution of 3 cm⁻¹ (one point every 1.5 cm⁻¹) across the spectrum. Again, the water bands in the spectrum are essentially unaffected by the presence of the OCS. The 2045 cm⁻¹ feature of OCS was observed to gradually sharpen over the course of warm-up.

5.14. $H_2O:OCS = 2:1$ (Fig. 15, Tables 15A-15F)

Spectra spanning the 4000 to 400 cm⁻¹ region of an $H_2O:OCS = 2:1$ ice mixture were measured at temperatures of 10, 40, 80, 100, 120, and 140 K. The ice sample was deposited at a rate of 4.2 μ m hr⁻¹ to a thickness of 0.28 μ m. Optical constants were calculated with a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) across the spectrum. The high concentration of OCS in the ice mixture is sufficient to break up the hydrogen-bonded H_2O lattice, resulting in a relatively strong absorption feature from free O—H bonds at 3645 cm⁻¹. A rearrangement in the structure of the ice mixture between 80 and 100 K is indicated by a sharp reduction in the intensity of this band with respect to the hydrogen-bonded O—H stretching band near 3300 cm⁻¹, and the abrupt sharpening observed in the 2050 cm⁻¹ OCS band.

5.15. N_2 :CH₄ = 20:1 (Fig. 16, Tables 16A and 16B)

Spectra spanning the 4000 to 400 cm⁻¹ region of an N_2 :CH₄ = 20:1 ice mixture were measured at temperatures of 10 and 20 K. The ice sample was deposited at a rate of 5.7 μ m hr^{-1} to a thickness of 1.96 μ m. Optical constants were calculated over the 3400 to 1000 cm⁻¹ region at a resolution of 1 cm⁻¹ (one point every 0.5 cm⁻¹) across the methane features in the spectrum (3400 to 2700 cm^{-1} and 1600 to 1100 cm^{-1}) and 2 cm⁻¹ (one point every 1 cm⁻¹) elsewhere. As was the case with the other mixtures involving CH₄, this was accomplished by a procedure identical to that used for the analysis of the pure CH₄ ice data. No structure was evident in the spectral bands at either temperature, and only a modest broadening of these features was observed with warm-up. The N₂ stretching fundamental was perturbed into activity in this ice. It falls at 2328 cm⁻¹ (FWHM = \sim 2 cm⁻¹, $A = 7 \times 10^{-22}$ cm molecule⁻¹) with an intensity 1/750 times that of the 1306 cm⁻¹ methane band.

5.16. N_2 :OCS = 20:1 (Fig. 17, Tables 17A-17D)

Spectra spanning the 4000 to 400 cm⁻¹ region of an N_2 :OCS = 20:1 ice mixture were measured at temperatures of 10, 15, 20, and 25 K. The ice sample was deposited at a rate of 4.2 μ m hr⁻¹ to a thickness of 0.28 μ m. Optical constants were calculated over the 3000 to 700 cm⁻¹ region with a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) across the spectrum.

A general broadening in the OCS asymmetric stretching feature near 2050 cm⁻¹ was observed between 10 and 20 K. A marked broadening and change in shape was observed in the profile of this band between 20 and 25 K. The N₂ stretching fundamental could not be observed in this experiment.

5.17.
$$O_2$$
:CH₄ = 20:1 (Fig. 18, Tables 18A-18C)

Spectra spanning the 4000 to 400 cm⁻¹ region of an O_2 :CH₄ = 20:1 ice mixture were measured at temperatures of 10, 20, and 30 K. The ice sample was deposited at a rate of 4.5 μ m hr⁻¹ to a thickness of 2.98 μ m. Optical constants were calculated over the 3400 to 1000 cm⁻¹ region at a resolution of 1 cm⁻¹ (one point every 0.5 cm⁻¹) across the methane features in the spectrum (3300 to 2700 cm⁻¹ and 1600 to 1100 cm⁻¹) and 2 cm⁻¹ (one point every 1 cm⁻¹) elsewhere. This was ac-

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complished by a procedure identical to that used for the analysis of the pure CH₄ ice data.

In the spectrum, the C-H stretching feature at 10 K was observed at 3030 cm⁻¹ with a shoulder near 3014 cm⁻¹. Between 20 and 30 K much of the intensity in this region shifted to the 3014 cm⁻¹ position. The C-H bending feature near 1306 cm⁻¹ was observed to shift slightly (\sim 2 cm⁻¹) to lower frequency and broaden in this temperature increment. In addition, the O₂ stretching fundamental was perturbed into activity in this ice mixture. It was observed at 1548 cm⁻¹ (FWHM \approx 6 cm⁻¹, $A\approx$ 5×10⁻²¹ cm molecule⁻¹) with an intensity \sim 1/70 times that of the 1306 cm⁻¹ methane band.

5.18. O_2 :OCS = 20:1 (Fig. 19, Tables 19A and 19B)

Spectra spanning the 4000 to 400 cm⁻¹ region of an O_2 :OCS = 20:1 ice mixture were measured at temperatures of 10 and 20 K. The ice sample was deposited at a rate of 4.9 μ m hr⁻¹ to a thickness of 0.45 μ m. Optical constants were calculated over the 3000 to 700 cm⁻¹ region with a resolution of 2 cm⁻¹ (one point every 1 cm⁻¹) across the spectrum. Only a slight broadening of the spectral features was observed in the warm-up. Once again, the O_2 stretching fundamental was ob-

served to be weakly active lying at 1548 cm⁻¹ (FWHM = \sim 6 cm⁻¹, $A \approx 3 \times 10^{-20}$ cm molecule⁻¹) with an intensity about one-fifth that of the 860 cm⁻¹ OCS feature.

5.19. Pure CO (Fig. 20, Table 20)

We have previously obtained infrared spectra of pure CO (Sandford et al. 1988) from which optical constants were derived and used to interpret astronomical spectra (Tielens et al. 1991). Since these optical constants do not appear in tabular form in either of the two previous references, they are presented here for completeness. Spectra spanning the 4000 to $400 \, \mathrm{cm^{-1}}$ region of pure CO ice were collected at a temperature of 10 K. The ice sample was deposited at a rate of $2.6 \, \mu \mathrm{m \ hr^{-1}}$ to a thickness of $0.025 \, \mu \mathrm{m}$. Optical constants were calculated with a resolution of $1 \, \mathrm{cm^{-1}}$ (one point every $0.5 \, \mathrm{cm^{-1}}$) between $2100 \, \mathrm{and} \, 2185 \, \mathrm{cm^{-1}}$.

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TABLE 1 INTEGRATED ABSORBANCE VALUES

Sample	ν _{max} (cm ⁻¹)	A (cm/molecule)	Sample	v _{max} (cm ⁻¹)	A (cm/molecule)
Weak IS Mixg	3288,2832ª,e	2.4 X 10 ⁻¹⁶	CO/CH ₄ =20/1	3017 ^b	1.9 X 10 ⁻¹⁷
	2832ª	7.5 X 10 ⁻¹⁸	, ,	1304 ^b	1.3 X 10 ⁻¹⁷
	2604,2544a	2.0 X 10 ⁻¹⁸		2138 ^c	1.2 X 10 ⁻¹⁷
	"1450"a	8.1 X 10 ⁻¹⁸			
	1125 ^a	2.3 X 10 ⁻¹⁸	CO/OCS=20/1	2049 ^f	2.1 X 10 ⁻¹⁶
	1017 ^a	1.5 X 10 ⁻¹⁷		857 ^f	1.7 X 10 ⁻¹⁸
	2136 ^c	5.6 X 10 ⁻¹⁸		2136 ^c	1.4 X 10 ⁻¹⁷
	1670 ^e	1.3 X 10 ⁻¹⁷			
	211 ^{a,e}	3.9 X 10 ⁻¹⁸	CO ₂ /CH ₄ =20/1	3009b	1.3 X 10 ⁻¹⁷
				1309 ^b	1.1 X 10 ⁻¹⁷
Strong IS Mixh	3277,"2961",2829a,e	2.1 X 10 ⁻¹⁶	ł	3708 ^d	2.3 X 10 ⁻¹⁸
outling to what	"2961"a	6.8 X 10 ⁻¹⁸		3600 ^d	8.5 X 10 ⁻¹⁹
	2829ª	9.1 X 10 ⁻¹⁸	[2343 ^d	1.3 X 10 ⁻¹⁶
	2599,2539a	3.2 X 10 ⁻¹⁸		660 ^d	1.9 X 10 ⁻¹⁷
	"1450" ^a	1.1 X 10 ⁻¹⁷	1	000	1.5 11 10
	1124 ^a	3.2 X 10 ⁻¹⁸	CO ₂ /OCS=20/1	2047 ^f	2.2 X 10 ⁻¹⁶
	1025 ^a	2.3 X 10 ⁻¹⁷	000000-2011	3704d	2.8 X 10 ⁻¹⁸
	2136 ^c	9.7 X 10 ⁻¹⁸	1	3596 ^d	1.2 X 10 ⁻¹⁸
	1675 ^e	4.0 X 10 ⁻¹⁸		2329d	1.5 X 10 ⁻¹⁶
	203a,e	2.5 X 10 ⁻¹⁸	[655 ^d	2.3 X 10 ⁻¹⁷
	203	2.5 X 10		055-	2.3 X 10 -
CH ₃ OH	3251,2951,2827	1.6 X 10 ⁻¹⁶	H ₂ O/CH ₄ =20/1	3009b	3.6 X 10 ⁻¹⁸
5	2951,2827	2.6 X 10 ⁻¹⁷	2-,4,-	1303 ^b	4.7 X 10 ⁻¹⁸
	3251	1.3 X 10 ⁻¹⁶	İ	1303	4.7 X 10
	2951	2.1 X 10 ⁻¹⁷	H ₂ O/OCS=20/1	2045 ^f	1.7 X 10 ⁻¹⁶
	2827	5.3 X 10 ⁻¹⁸	1120,000 20,1	2043	1.7 X 10
	2526	2.8 x 10 ⁻¹⁸	H ₂ O/OCS=2/1	2036 ^f	1.9 X 10 ⁻¹⁶
	"1460"	1.2 X 10 ⁻¹⁷	1.20,000 -,1	857 ^f	9.4 X 10 ⁻¹⁹
	1130	1.8 X 10 ⁻¹⁸		551 ^f	2.7 x 10 ⁻¹⁸
	1026	1.8 X 10 ⁻¹⁷		3646,3332,2889e	2.4 X 10 ⁻¹⁶
	694	1.4 X 10 ⁻¹⁷		3646 ^e	5.1 X 10 ⁻¹⁸
	320,139	2.4 X 10 ⁻¹⁸	İ	3332e	2.4 X 10 ⁻¹⁶
	320,137	2.4 K 10		2889e	9.2 X 10 ⁻¹⁹
H ₂ O	3298	1.7 X 10 ⁻¹⁶		1638 ^e	2.0 X 10 ⁻¹⁷
1120	2202	3.3 X 10 ⁻¹⁸	[731 ^e	5.5 X 10 ⁻¹⁷
	1657	1.0 X 10 ⁻¹⁷	1	731	3.5 A 10
	760	2.8 X 10 ⁻¹⁷	N ₂ /CH ₄ =20/1	3026 ^b	1.4 X 10 ⁻¹⁷
	211	4.2 X 10 ⁻¹⁸	11/2/21/4-20/1	1306 ^b	1.0 X 10 ⁻¹⁷
	211	4.2 X 10		1300-	1.0 X 10 -
CH ₄	3009	5.7 X 10 ⁻¹⁸	N2/OCS=20/1	2052 ^f	2.5 X 10 ⁻¹⁶
C114	1301	3.8 x 10 ⁻¹⁸	11/2000-20/1	859 ^f	2.0 X 10 ⁻¹⁸
	1301	3.6 X 10		637	2.0 X 10
CO_2	3708	2.6 X 10 ⁻¹⁸	O ₂ /CH ₄ =20/1	3033b	6.3 X 10 ⁻¹⁸
	3600	7.9 X 10 ⁻¹⁹		1307 ^b	6.4 X 10 ⁻¹⁸
	2342	1.4 X 10 ⁻¹⁶		1507	0.11110
	660,655	2.0 X 10 ⁻¹⁷	O ₂ /OCS=20/1	2050 ^f	2.6 X 10 ⁻¹⁶
	000,000	2.0 /1 10	- 5	860 ^f	2.3 X 10 ⁻¹⁸
ocs	2025	1.5 X 10 ⁻¹⁶		520 ^f	1.4 X 10 ⁻¹⁸
000	857	1.3 X 10 ⁻¹⁸		Jaco	1.7 % 10
	514	1.8 X 10 ⁻¹⁸			

^a Absorbing species: CH₃OH.
^b Absorbing species: CH₄.
^c Absorbing species: CO.
^d Absorbing species: CO₂.
^e Absorbing species: H₂O.
^f Absorbing species: OCS.
^g H₂O:CH₃OH:CO:NH₃ = 100:10:1:1.
^h H₂O:CH₃OH:CO:NH₃ = 100:50:1:1.

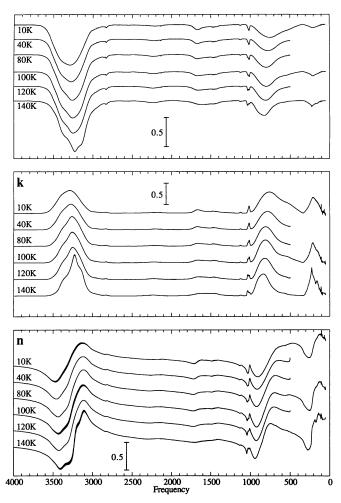


FIG. 2.—The 4000 to 50 cm $^{-1}$ transmission spectra and optical constants (n and k) of an H₂O:CH₃OH:CO:NH₃ = 100:10:1:1 ice mixture at temperatures of 10, 40, 80, 100, 120, and 140 K. The original ice was deposited at 10 K. In these and subsequent transmission spectra, the spectra are plotted in absorbance.

TABLE 2A ${\rm H_2O:CH_3OH:CO:NH_3 = 100:10:1:1 \ AT\ 10 \ K}$

Name of the contract of the	0.041 0.045 0.037
1273 1273 1273 1273 1273 1273 1273 1273	1,332 1,331 1,320 1,320
V (Cm ⁻¹) 1183.4 1185.3 1187.3 1187.3 1187.3 1195.0 1196.9 1196.9 1196.9 1196.9 1196.9 1196.9 1196.9 1196.9 1234.5 1277.7 1277.7 1286.6 1277.7 1286.6 1286.6 1287.7 1286.6 1287.7 1286.6 1287.7 1286.6 1287.7 1286.6 1287.7 1387.0 1387.	1471.8 1477.6 1483.4 1489.2
No. 100 No.	000000
n 1.194 1.200 1.20	1268 1270 1271 1272
CCM ⁻¹ (Cm ⁻¹) (Cm ⁻¹) (000.6) (000.6) (000.6) (000.8) (1175.7 1177.6 1179.6 1181.5
k k k k k k k k k k k k k k	00000
1000 1000	1.180 1.184 1.188 1.191
V(Cm ⁻¹) 957.8 957.7 961.6 963.5 963.5 963.5 963.5 963.5 963.6 96	1061.9 1063.8 1065.7 1067.7
k k k k k k k k k k k k k k	0.095 0.089 0.080 0.080
14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 14457 1457 1	1.062 1.067 1.071 1.075
V (CIII-1) 1/2014 1/201	948.1 950.0 951.9 953.9
K C C C C C C C C C C C C C	0.465 0.465 0.475 0.484
1000 1000 1000 1000 1000 1000 1000 100	1.505 1.495 1.478 1.464
New York Coll Col	700.2 706.0 711.8 717.6
New York New York	0.050 0.052 0.056 0.058
1399 1399 1399 1399 1399 1399 1399 1440 1440 1440 1440 1440 1440 1440 14	1.612 1.615 1.616 1.616
V (CIII-1) V	384.8 386.8 388.7 390.6
Keep Color	0.144 0.138 0.129 0.127
1734 1734 1737 1737 1737 1737 1738 1739 1739 1739 1739 1739 1739 1739 1739	1.386 1.386 1.388 1.389
(Cm ⁻¹) 166.9 166.9 170.7 170	271.0 273.0 274.9 276.8
Name	
	0.259 0.265 0.272 0.276

¥	0.000	0000	0.000	0000	0.000	0.000	0000	0.000	0.000	0.000	000	000	0.00	0.000	0.000	0.000	000	0.00	0.000	0.000	0.000	36	0000	0.000	0.000	90.0	0000	0.000	0000	0000	0.00	0.000	0000	0.00	0.000	000	888	0.000	0.000	000	0.00	000	000	0.000	
и	1.146	1.154	1.160	1.163	1.168	1.171	1.173	1.179	1.182	1.184	1.187	1.191	1.192	1.195	1.196	1.198	1.201	1.203	1.205	1.206	1.207	1.209	1.212	1.213	1.214	1.215	1.218	1.219	1.220	1221	1.223	1.224	1.226	1.227	1.228	1.229	1.231	1.231	1.232	1.234	1.235	1.235	1.237	1.238	
v (cm ⁻¹)	3675.6	3687.2	3698.8	3704.6	3716.1	3721.9	3733 5	3739.3	3745.1	3750.9	3756.6	3768.2	3774.0	3779.8	3785.6	3791.4	3802.9	3808.7	3814.5	3820.3	3826.1	3837.7	3843.4	3849.2	3855.0	3860.8	3872.4	3878.2	3884.0	3895.7	3901.3	3907.1	3918.7	3924.5	3930.2	3936.0	3947.6	3953.4	3959.2	3970.8	3976.5	3982.3	3993.9	3999.7	
k	0.517	0.505	0.493	0.486	0.469	0.458	0.448	0.429	0.415	0.403	0.389	0.359	0.343	0.325	0.308	0.289	0.254	0.237	0.220	0.203	0.185	0.170	0.143	0.130	0.118	0.100	0.082	0.072	0.063	0.00	0.041	0.035	0.029	0.021	0.017	0.014	0.00	0.007	0.005	0.002	0.000	0000	0.00	0.000	
п	1.214	1.183	1.115	1.10	1.092	1.097	1.083	1.022	1.010	1.014	1.002	0.995	0.986	0.952	0.946	0.941	0.947	0.955	0.954	0.955	0.942	0.940	0.962	0.966	0.976	0.981	0.987	0.995	90.1	1.014	1.032	1.040	1.053	1.060	1.068	1.076	1.089	1.096	1.101	1.112	1.118	1.123	1.132	1.137	
v (cm ⁻¹)	3340.0	3351.6	3363.1	3368.9	3380.5	3386.3	3392.1	3403.6	3409.4	3415.2	3421.0	3432.6	3438.4	3444.1	3449.9	3455.7	3467.3	3473.1	3478.9	3484.7	3490.4	3502.0	3507.8	3513.6	3519.4	3525.2	3536.7	3542.5	3548.3	3559.0	3565.7	3571.5	3583.0	3588.8	3594.6	3600.4	3612.0	3617.8	3623.5	3635.1	3640.9	3646.7	3658.3	3664.1	
×	0.037	2 2 2 2 3 3 4	0.048	0.052	0.065	0.072	0.080	0.097	0.107	0.118	0.129	0.155	0.168	0.181	0.195	0.209	0.237	0.254	0.269	0.285	0.300	0.313	0.344	0.360	0.378	0.393	0.421	0.435	0.446	0.439	0.486	0.496	0.515	0.521	0.529	0.536	0.548	0.551	0.551	0.549	0.546	0.543	0.538	0.531	
E.	1.539	1.554	1.570	1.580	1.596	1.598	1.603	1.622	1.629	1.60	2.1. 2.2. 3.2. 3.2.		1.647	1.656	1.658	2008	1.670	1.650	1.648	1.644	1.652	1.046	1.651	4	1.608	1.599	1.594	1.582	1.588	1.576	1.510	1.494	1.480	1.485	1.466	1.448	1.368	1.346	1.349	1.333	1.314	1.295	1.219	1.222 1.206	
v (cm ⁻¹)	3004.3	3015.9	3027.5	3033.3	3044.9	3050.6	3062.2	3068.0	3073.8	3079.6	3085.4	3096.9	3102.7	3108.5	3114.3	3120.1	3131.7	3137.4	3143.2	3149.0	3154.8	31664	3172.2	3178.0	3183.7	3189.5	3201.1	3206.9	3212.7	3224.2	3230.0	3235.8	3247.4	3253.2	3259.0	3264.8	3276.3	3282.1	3287.9	3299.5	3305.3	3311.1	3322.6	3328.4 3334.2	
ᅩ	0.000	000	0.000	0.00	0.00	0.000		0.00	0.000	0.000	0.00	0.08	0.002	0.002	0.003	90.0	0.00	0.007	0.00	0.011	0.014	0.019	0.023	0.017	0.015	0.016	0.015	0.014	0.013	0.013	0.013	0.014	0.010	0.017	0.017	0.020	0.023	0.021	0.022	0.020	0.029	0.030	0.032	0.035	
u	1.406	1.408	1.411	1.412	1.415	1.417	1.418	1.422	1.424	1.425	1.427	1.431	1.433	1.435	1.438	1.440	1.445	1.448	1.450	1.453	1.455	1.450	1.446	1.446	1.451	1.455	1.456	1.457	0.460	1.468	1.471	1.475	1.481	1.482	1.486	1.491	1.494	1.499	1.505	1.510	1.512	1.517	1.528	1.534	
	2668.7				2709.2	2715.0	2726.6	2732.4	2738.2	2743.9	2749.7	2761.3	2767.1	2772.9	2778.7	2784.4	2796.0	2801.8	2807.6	2813.4	2819.2	2830.7	2836.5	2842.3					2877.0	2888.6	2894.4	2900.2	2911.8	2917.5	2923.3	2929.1	2940.7	2946.5	2952.3	2963.8	2969.6	29/5.4	2987.0	2992.8	
×	0.007	0.00	0.006	0.005	0.00	0.00	9.0	0.0	0.003	0.003	0.003	0.003			0.002	0.002	0.002	0.001	0.001	0.001	0.001	900	0.00	0.001	0.001	9.0	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.00	0.000	900	0.00	0.000	0.000
	1.358	1.360	1.360	1.361	1.362	1.363	4 %	1.365	1.366	1.367	1.367	1.369	1.370	1.370	1.371	1.3/1	1.373	1.374	1.375	1.376	1.377	1.378	1.379	1.380	1.381	1.382	1.384	1.385	1.385	1.386	1.387	1.387	1.389	1.389	1.390	1.391	1.393	1.394	1.395	1.396	1.397	1.398	1.401	1.402 1.404	1.405
1	2327.3									2402.5	2408.3	2419.9	2425.7	2431.4	2437.2	2443.0	2454.6	2460.4	2466.2	2472.0	2477.7	24893	2495.1	2500.9	2506.7	2512.5	2524.0	2529.8	2535.6	2547.2	2553.0	2558.8	2570.3	2576.1	2581.9	2587.7	2599.3	2605.1	2610.8	2622.4	2628.2	2634.0	2645.6	2651.3	2662.9
يد	0.010	0.012	0.017	0.019	0.017	0.015	0.013	0.013	0.014	0.014	0.015	0.015	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.012	0.011	0.010	900	0.00	0.008	0.007
	1.361									1.357	1.357	1.355	1.357				1.356					1 357	1.356	1.356	1.357	1.356	1.356	1.356	1.355	1.355	1.355	1.355	1.355	1.354	1.355	4 2 2	1.353	1.353	1.353	1.354	1.355	1.355	1.356	1.356	1.358
v (cm ⁻¹)	2126.7	2130.5	2134.4	2136.3	2140.2	2142.1	2146.0	2147.9	2149.8	2151.8	2153.7	2157.5	2159.5	2161.4	2163.3	2163.3	2169.1	2171.0	2173.0	2174.9	2176.8	21807	2182.6	2184.5	2186.5	21903	2192.3	2194.2	2196.1	2205.8	2211.5	2217.3	2228.9	2234.7	2240.5	2246.3	2257.8	2263.6	2269.4	2281.0	2286.8	2292.6	2304.1	2309.9 2315.7	2321.5
×	0.002	0.00	0.002	0.00	0.000	0.000	36	0.001	0.00	0.00	0.0	0.00	0.00	0.001	0.00	00.0	0.00	0.001	0.001	0.00	0.00	300	0.002	0.002	0.002	0.00	0.002	0.003	0.003	0.00	0.004	90.0	0.005	0.006	90.0	0.00	0.008	0.008	0.008	0.00	0.008	900	0.00	0.010 0.010	0.010
ľ I	1.315	1.318	1.320	1.322	1.324	1.325	1 327	1.328	1.329	1.330	1.331	1.333	1.333	1.334	1.335	1.330	1.338	1.339	1.339	1.340	1.341	1343	134	1.344	1.345	346	1.347	1.348	1.349	1.351	1.351	1.352	1.354	1.355	1.355	1.356	1.357	1.357	1.358	1.357	1.358	1.358	1.359	1.359 1.359	1.359
v (cm ⁻¹)	1836.4	1847.9	1859.5	1865.3	1876.9	1882.7	1894.2	1900.0	1905.8	1911.6	1917.4	1929.0	1934.7	1940.5	1946.3	1057.0	1963.7	1969.5	1975.3	1981.0	1986.8	1998.4	2004.2	2010.0	2015.8	2027.3	2033.1	2038.9	2044.7	2056.3	2062.1	2067.8	2079.4	2085.2	2091.0	2090.8	2103.5	2105.5	2107.4	2111.2	2113.2	2115.1	2119.0	2120.9	2124.7
ᅩ	0.034	0.033	0.035	0.035	0.037	0.037	0.030	0.041	0.042	0.043	0.00	0.046	0.048	0.049	0.051	0.033	0.060	0.064	0.067	0.071	0.074	0.070	0.080	0.081	0.080	0.078	0.071	0.066	0.000	0.02	0.040	0.035	0.030	0.021	0.018	0.014	0.010	0.009	0.008	0.00	0.005	90.0	0.003	0.003	0.002
1	1.322	1.328	1.332	1.334	1.334	1.333	1.337	1.337	1.339	1.339	1.340	1.337	1.338	1.341	1.341	1 344	1.34	1.338	1.336	1.335	1.332	1.326	1.320	1.309	1.302	1.292	1.287	1.285	1.280	1.272	1.272	1.275	1.279	1.282	1.285	1 289	1.292	1.295	1.298	1.302	1.304	1.303	1.309	1.311	1.314
v (cm ⁻¹)	1494.9	1506.5	1518.1	1523.9	1535.4	1541.2	1552.8	1558.6	1564.4	1570.2	1581 7	1587.5	1593.3	1599.1	1604.9	1616.7	1622.3	1628.0	1633.8	1639.6	1651.7	1657.0	1662.8	1668.5	1674.3	1685.9	1691.7	1697.5	1,03.3	1714.8	1720.6	1726.4	1738.0	1743.8	1749.6	1761.1	1766.9	1772.7	17873	1790.1	1795.9	1801.6	1813.2	1819.0 1824.8	1830.6

TABLE 2B $H_2O:CH_3OH:CO:NH_3 = 100:10:1:1 \text{ AT } 40 \text{ K}$

×	0.003	0.002 0.001 0.001 0.001
c	1368 1368 1368 1368 1368 1368 1368 1368	1.382 1.383 1.384 1.385 1.386
v (cm ⁻¹)	2166.7 2166.7 2166.7 2170.6 2177.5 2177.5 2177.5 2177.5 2177.6 21	2449.3 2456.0 2462.8 2469.5 2476.3
K	0.000000000000000000000000000000000000	0.014 0.014 0.015 0.015 0.015
_ c	1348 1348 1348 1350 1350 1350 1350 1350 1350 1360 1360 1360 1360 1360 1360 1360 136	1368 1369 1369 1369 1369
v (cm ⁻¹)		2157.1 2159.0 2160.9 2162.8 2164.8
*	0.0055 0.0057	0.0000000000000000000000000000000000000
=	1.326 1.336 1.337 1.336 1.336 1.337 1.337 1.337 1.337 1.337 1.337 1.337 1.337 1.337 1.337 1.337 1.338	1.344 1.344 1.346 1.346 1.347
v (cm ⁻¹)		1928.5 1934.3 1940.0 1945.8 1951.6
×.	0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.022 0.022 0.023 0.024 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.044	0.049 0.051 0.052 0.052
r r	8 8 8 8 9 11 12 12 12 12 12 12 12 12 12 12 12 12	1350 1350 1350 1350 1350
v (cm ⁻¹)		1592.8 1598.6 1604.4 1610.2
×	0.0000 0.	0.006 0.007 0.008 0.008 0.010
r r	1.284 1.284 1.284 1.287 1.287 1.287 1.287 1.298 1.298 1.299 1.299 1.299 1.309	1.327 1.329 1.330 1.332 1.334
v (cm ⁻¹)	V (CH) 1109.6 11109.6 11109.6 11113.5 11113.1 1	1245.6 1251.4 1257.2 1263.0 1268.8
k	70000 0000 0000 0000	0.0000000000000000000000000000000000000
u	1259 1259 1259 1259 1259 1259 1259 1259	1.272 1.274 1.277 1.279 1.281
v (cm ⁻¹)	V (CER + 1) 995.8 995.8 995.7 1001.5 1001.5 1005.5 1005.7 1017.0	1100.0 1101.9 1103.8 1105.8 1107.7
ĸ	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.019 0.017 0.018 0.018 0.017
u	11.155 11.155 11.155 11.155 11.155 11.155 11.156 11	1211 1217 1224 1231 1239
v (cm ⁻¹)	886.3 886.3 887.9 886.3 887.9 886.3 887.9 886.3 887.9	986.2 988.1 990.0 992.0 993.9
×	0.003 0.003 0.003 0.008	0.416 0.413 0.404 0.394 0.385
=	E C 8 C C 8 C C 8 8 C C 1 2 2 8 8 2 2 2 2 2 2 4 4 4 8 E E 8 2 4 4 6 4 9 8 8 5 E 8 8 5 E E E E E E 8 2 4 5 C C 8 5 E 8 6 E E E E E E 8 6 6 E 8 6 E E E E E	
v (cm ⁻¹)	600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	817.4 823.2 829.0 834.8 840.5

TABLE 2B—Continued

				IAI	SLE ZB	—Continu	ea				
v (cm ⁻¹)	n	k	v (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k	v (cm ⁻¹)	n	k
2483.0	1.387	0.000	2867.9	1.472	0.016	3252.7	1.447	0.601	3637.5	1.119	0.000
2489.8	1.388	0.001	2874.6	1.475	0.014	3259.5	1.420	0.609	3644.3	1.125	0.000
2496.6	1.390	0.001	2881.4	1.479	0.013	3266.2	1.392	0.616	3651.0	1.130	0.000
2503.3	1.390	0.001	2888.1	1.483	0.013	3273.0	1.364	0.620	3657.8	1.135	0.000
2510.1	1.392	0.001	2894.9	1.488	0.014	3279.7	1.336	0.621	3664.5	1.140	0.000
2516.8 2523.6	1.393 1.394	0.002 0.002	2901.6 2908.4	1.492 1.496	0.015 0.017	3286.5 3293.2	1.308 1.279	0.621 0.617	3671.3 3678.0	1.145 1.149	0.000
2530.3	1.394	0.002	2908.4	1.498	0.017	3300.0	1.252	0.617	3684.8	1.149	0.000
2530.3	1.395	0.002	2913.1	1.503	0.017	3306.7	1.227	0.601	3691.5	1.154	0.000
2543.8	1.396	0.003	2928.6	1.510	0.017	3313.5	1.204	0.593	3698.3	1.161	0.000
2550.6	1.397	0.003	2935.4	1.512	0.023	3320.2	1.180	0.581	3705.0	1.164	0.000
2557.3	1.397	0.003	2942.1	1.514	0.023	3327.0	1.159	0.570	3711.8	1.168	0.000
2564.1	1.398	0.003	2948.9	1.520	0.021	3333.7	1.140	0.557	3718.5	1.171	0.000
2570.8	1.399	0.002	2955.6	1.527	0.024	3340.5	1.122	0.544	3725.3	1.174	0.000
2577.6	1.400	0.002	2962.4	1.532	0.027	3347.2	1.105	0.531	3732.0	1.177	0.000
2584.3	1.401	0.002	2969.1	1.535	0.029	3354.0	1.089	0.519	3738.8	1.180	0.000
2591.1	1.402	0.002	2975.9	1.540	0.029	3360.7	1.074	0.506	3745.5	1.183	0.000
2597.8	1.404	0.002	2982.6	1.547	0.030	3367.5	1.058	0.493	3752.3	1.185	0.000
2604.6	1.404	0.002	2989.4	1.555	0.034	3374.2	1.043	0.481	3759.1	1.187	0.000
2611.3	1.405	0.002	2996.1	1.560	0.037	3381.0	1.029	0.468	3765.8	1.190	0.000
2618.1	1.406	0.002	3002.9	1.566	0.037	3387.7	1.015	0.453	3772.6	1.192	0.000
2624.8	1.407	0.001	3009.7	1.574	0.039	3394.5	1.001	0.438	3779.3	1.194	0.000
2631.6	1.409	0.000	3016.4	1.585	0.041	3401.2	0.986	0.421	3786.1	1.196	0.000
2638.3	1.410	0.000	3023.2	1.595	0.046	3408.0	0.974	0.405	3792.8	1.198	0.000
2645.1	1.411	0.000	3029.9	1.605	0.052	3414.7	0.962	0.387	3799.6	1.200	0.000
2651.8	1.413	0.000	3036.7	1.616	0.059	3421.5	0.950	0.366	3806.3	1.202	0.000
2658.6	1.415	0.000	3043.4	1.627	0.067	3428.2	0.940	0.346	3813.1	1.204	0.000
2665.3 2672.1	1.416 1.418	0.000	3050.2	1.637 1.648	0.076	3435.0 3441.7	0.932 0.926	0.324 0.302	3819.8 3826.6	1.205 1.207	0.000
2678.8	1.419	0.000	3056.9 3063.7	1.657	0.087 0.098	3441.7 3448.5	0.920	0.302	3820.0	1.207	0.000
2685.6	1.421	0.000	3070.4	1.667	0.098	3455.2	0.921	0.279	3840.1	1.210	0.000
2692.3	1.423	0.000	3077.2	1.677	0.112	3462.0	0.919	0.234	3846.8	1.212	0.000
2699.1	1.424	0.000	3083.9	1.684	0.142	3468.7	0.921	0.212	3853.6	1.213	0.000
2705.8	1.426	0.000	3090.7	1.691	0.160	3475.5	0.924	0.192	3860.3	1.215	0.000
2712.6	1.428	0.000	3097.4	1.698	0.178	3482.2	0.929	0.173	3867.1	1.216	0.000
2719.3	1.430	0.000	3104.2	1.702	0.197	3489.0	0.936	0.155	3873.8	1.217	0.000
2726.1	1.432	0.000	3110.9	1.705	0.217	3495.7	0.943	0.139	3880.6	1.219	0.000
2732.8	1.434	0.000	3117.7	1.707	0.237	3502.5	0.950	0.123	3887.3	1.220	0.000
2739.6	1.437	0.000	3124.4	1.707	0.258	3509.3	0.957	0.109	3894.1	1.221	0.000
2746.4	1.439	0.000	3131.2	1.705	0.279	3516.0	0.965	0.095	3900.8	1.222	0.000
2753.1	1.441	0.000	3137.9	1.703	0.300	3522.8	0.974	0.082	3907.6	1.223	0.000
2759.9	1.444	0.000	3144.7	1.699	0.321	3529.5	0.983	0.070	3914.3	1.225	0.000
2766.6	1.446	0.001	3151.4	1.694	0.342	3536.3	0.993	0.059	3921.1	1.226	0.000
2773.4	1.449	0.002	3158.2	1.687	0.363	3543.0	1.003	0.049	3927.8	1.227	0.000
2780.1	1.452	0.002	3164.9	1.679	0.384	3549.8	1.013	0.041	3934.6	1.228	0.000
2786.9	1.455	0.003	3171.7	1.669	0.405	3556.5	1.024	0.033	3941.3	1.229	0.000
2793.6	1.458	0.004	3178.4	1.658	0.426	3563.3	1.034	0.027	3948.1	1.230	0.000
2800.4	1.462	0.006	3185.2	1.645	0.446	3570.0	1.043	0.022	3954.8	1.231	0.000
2807.1	1.465	0.009	3191.9	1.632	0.465	3576.8	1.053	0.017	3961.6	1.232	0.000
2813.9	1.468	0.012	3198.7	1.617	0.484	3583.5	1.062	0.013	3968.3	1.233	0.000
2820.6	1.471	0.017	3205.4	1.600	0.502	3590.3	1.071	0.010	3975.1	1.234	0.000
2827.4	1.470	0.023	3212.2	1.582	0.520	3597.0	1.079	0.007	3981.8	1.235	0.000
2834.1 2840.9	1.463 1.460	0.027 0.018	3218.9 3225.7	1.562 1.542	0.536	3603.8 3610.5	1.087	0.005 0.003	3988.6	1.235 1.236	0.000
2840.9	1.466	0.018	3225.7	1.542	0.551	3610.3	1.094 1.101	0.003	3995.3	1.230	0.000
2854.4	1.469	0.016	3232.4	1.321	0.567 0.580	3617.3 3624.0	1.101	0.002			
2861.1	1.470	0.017	3239.2	1.477		3630.8	1.114	0.000			
2001.1	1.4/0	0.017	3243.9	1.4/3	0.591	2020.8	1.114	0.000			

	10 10 10 10 10 10 10 10 10 10 10 10 10 1	9 / 1	9		<u>~ ~ ~ </u>	00 00	0000	000	0	00	00	00	1 00 1	- 9	0 4	e 2	7 -	. 0		0 / 0	- 9	9	s s	4 4	4 4	+ 10 1	200	222	76-	
~	0.015 0.015 0.015	0.01	0.01	0.01	0.01	0.01	0.01	0.018	0.01	0.020 0.020	0.00	0.01	0.018	0.01	0.015	0.01	0.01	0.010	0.00	0.00	0.00	0.00	0.00	8.8	8.6	000	0.00	0.00		0.00
٦	1.377	1.377	1.377	1.376	1.376 1.376	1.376	1.376	1.376	1.375	1.374	1.372	1.371	1.370	1.369	1.369	1.370	1.370	1.372	1.373	1.375	1.376	1.378	1.379	1.381	1.383	1.384	1.386	1.387	1.389	1.393
v (cm ⁻¹)	2166.7 2168.6 2170.6	2174.4	21/8.3 2180.2 2182.1	2184.1 2186.0	2187.9 2189.8	2191.8 2193.7	2195.6	2199.5	2213.0	2219.7 2226.5	2233.2 2240.0	2246.8	2260.3	2273.8	2287.3	2294.0 2300.8	2307.5	2321.0	2334.5	2348.0	2361.5	2375.0	2381.8 2388.5	2395.3 2402.0	2408.8	2422.3	2435.8	2442.5	2462.8 2469.5	2476.3
<u> </u>	0.000	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.005	0.005	0.006	0.006	0.006	0.007	0.008	0.008	0.008	0.009	0.010	0.017	0.018	0.012	0.012	0.012	0.013	0.013	0.014	0.015
l a	1.352 1.353 1.354 1.354	1.355	1.358 1.358 1.359	1.359	1.361	1.363 1.364	1.364	1.366	1.368	1.369	1.371	1.372	1.373	1.374	1.375	1.375	1.376	1.376	1377	1.379	1.381	1.380	1.373	1.373	1.375	1.376	1.376	1.376	1.376	1.377
v (cm ⁻¹)	1957.4 1963.2 1969.0	1980.6	1992.1 1997.9 2003.7	2009.5 2015.3	2021.1 2026.8	2032.6 2038.4	2044.2	2055.8	2067.4	2073.1 2078.9	2084.7 2090.5	2096.3	2103.0	2106.9	2110.8	2112.7 2114.6	2116.5	2120.4	2124.3	2128.1	2132.0	2135.8	2137.8 2139.7	2141.6 2143.6	2145.5	2149.3	2153.2	2155.1	2160.9 2160.9 2162.8	2164.8
<u>×</u>	0.057 0.058 0.059	0.060	0.063	0.065	0.065	0.061	0.055	0.047	0.038	0.033	0.026	0.020	0.015	0.012	0.010	0.009	0.007	0.006	0.005	\$ 8 8	9 9 9	0.003	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.000
G	1.346 1.344 1.343	1.340	1.338 1.334 1.332	1.329 1.326	1.321	1.313	306	1.303	1.301	1.302	1.304	1.307	1.311	1.315	1.319	1.320	1.323	1.327	1.329	1.332	1.334	1.337	1.338	1.340 1.341	1.342	1344	1.346	1.347	1349	1.351
v (cm ⁻¹)	1616.0 1621.8 1627.6 1633.3	1639.1	1656.5 1656.5 1662.3	1668.1 1673.9	1679.6	1691.2 1697.0	1702.8	1714.4	1725.9	1731.7	1743.3 1749.1	1754.9	1766.4	1778.0	1789.6	1795.4 1801.2	1806.9	1818.5	1830.1	1841.7	1853.2	1864.8	1870.6	1882.2 1888.0	1893.8	1905.3	1916.9	1922.7	1940.0 1945.8	1951.6
×	0.011 0.012 0.012	0.014	0.015 0.016 0.017	0.018	0.020	0.021	0.024	0.025	0.027	0.029	0.034	0.041	0.047	0.049	0.055	0.052	0.053	0.059	0.046	0.043	6 4 2	0.046	0.046	0.050	0.049	0.051	0.052	0.053	0.054	0.056
F	1.341 1.343 1.343	1.346	1.348 1.349 1.351	1.352	1.354	1.357	1.358	1.361	1.363	1.365	1.367	1.368	362	1.359	1.361	1.354	1.350	1.349	1.342	1.347	1.349	1.349	1.351	1.351	1.351	1.349	1.350	1.348	1347	1.346
v (cm ⁻¹)	1274.6 1280.3 1286.1 1291.9	1297.7	1309.3 1315.1 1320.9	1326.6 1332.4	1338.2	1349.8 1355.6	1361.4	1372.9	1384.5	1390.3	1401.9 1407.7	1413.4	1425.0	1436.6	1448.2	1453.9 1459.7	1465.5 1471.3	1477.1	1488.7	1500.2	1511.8	1523.4	1529.2	1540.8 1546.5	1552.3	1563.9	1575.5	1587.0	1598.6 1604.4	1610.2
×	0.004	0.013	0.020	0.021	0.017	0.011	0.005	0.001	0.000	000	0000	0.000	000	0.00	0.00	0000	0.000	0.000	000	000	000	000	0.001	0.002	0.002	4 20 2	0.00	0.006	0.00	0.010
п	1.285 1.287 1.288 1.288	1.289	1.286	1.281	1.277	1.275	1.278	1.282	1.286	1.289	1.292 1.293	1.294	1.297	1.298	1.301	1.302	1.303	1.306	1.307	1.310	1.310	1.313	1.314	1.316	1.320	1.325	1.328	1.331	1.334	1.339
v (cm ⁻¹)	1109.6 1111.6 1113.5 1115.4	1117.3	1123.1	1127.0	1130.8	1134.7	1138.6	1142.4	1146.3	1150.1	1152.1	1155.9	1159.8	1163.6	1167.5	1169.4 1171.4	1173.3	1177.1	1181.0	1184.9	1188.7	1192.6	1194.5	1198.4 1205.1	1210.9	1222.5	1234.0	1239.8	1257.2	1268.8
×	0.015 0.017 0.020 0.025	0.036	0.096	0.134 0.145	0.144	0.122 0.106	0.094	0.085	0.083	0.076	0.053	0.025	0.006	0.000	0.00	0000	0000	0.00	800	800	000	0.000	0.000	0000	0.00	000	0.000	0000	0000	0.003
u	1.234 1.245 1.256 1.268	1.280	1.293 1.283	1.266 1.244	1.222	1.189	1.183 1.184	1.185	1.175	1.163	1.159	1.163	1.180	1.197	1.210	1.215	1.224	1.231	1.238	124	1.249	1.253	1.255	1.259 1.261	1.263	1.267	1.271	1.274	1.278	1.283
v (cm ⁻¹)	995.8 997.8 999.7 1001.6	1003.5	100/.4 1009.3 1011.3	1013.2 1015.1	1017.0	1020.9 1022.8	1024.8	1028.6	1032.5	1036.3	1038.3 1040.2	1042.1	1046.0	1049.8	1053.7	1055.6 1057.5	1059.5 1061.4	1063.3	1067.2	1071.1	1074.9	1078.8	1080.7	1084.6 1086.5	1088.4	1092.3	1096.1	1100.0	1103.8	1107.7
×	0.436 0.425 0.415 0.401	0.385	0.333	0.291	0.272	0.257	0.240	0.225	0.211	0.202	0.187	0.171	0.157	0.144	0.129	0.120	0.109	0.095	0.085	0.073	0.062	0.052	0.049	0.040	0.033	0.027	0.022	0.021	0.015	0.014
E	1.237 1.217 1.197 1.178	1.159	1.115	1.092	1.086	1.081	1.078	1.076	1.073	1.074	1.073	1.075	1.077	1.080	1.084	1.087	1.093 1.096	1.099	1.106	1.114	1.123	1.133	1.137	1.148 1.154	1.159	1.171	1.182	1.189	1.209	1.225
v (cm ⁻¹)	846.3 852.1 857.9 863.7	869.5	886.8 892.6	898.4 901.3	903.2	907.1 909.0	911.0	914.8	918.7	920.6	924.5 926.4	928.3	932.2	936.0	939.9	941.8 943.7	945.7 947.6	949.5	953.4	957.2	959.2	965.0	966.9 968.8	970.8 972.7	974.6	978.5	982.3	984.3 986.2 000 1	990.0 992.0	993.9
×	0.036 0.033 0.045 0.042	0.051	0.054	0.062	0.069	0.076	0.085	0.094	0.106	0.116	0.125	0.143	0.162	0.183	0.209	0.221	0.252	0.281	0.313	0.346	0.375	0.404	0.416	0.436	0.454	0.463	0.468	0.468	0.459	0.446
II .	1.586 1.579 1.580 1.581																													
v (cm ⁻¹)	504.9 510.7 516.5 522.3	528.1	545.4 545.4 551.2	557.0 562.8	568.6	580.1 585.9	591.7 597.5	603.3 609.1	614.9	626.4	638.0	643.8 649.6	655.4	6.999	678.5	684.3 690.1	695.9	707.4	719.0	730.6	742.2	753.7	759.5	771.1	782.7	794.3	805.8	817.4	829.0 834.8	840.5

TABLE 2C—Continued

				- 1711	, DE 20	—Continu					
ν (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k
2483.0	1.394	0.000	2867.9	1.491	0.016	3252.7	1.390	0.713	3637.5	1.121	0.000
2489.8	1.396	0.001	2874.6	1.495	0.015	3259.5	1.353	0.718	3644.3	1.127	0.000
2496.6	1.397	0.001	2881.4	1.500	0.014	3266.2	1.315	0.719	3651.0	1.131	0.000
2503.3	1.398	0.001	2888.1	1.505	0.015	3273.0	1.276	0.715	3657.8	1.136	0.000
2510.1	1.399	0.001	2894.9	1.510	0.016	3279.7	1.239	0.709	3664.5	1.141	0.000
2516.8	1.401	0.002	2901.6	1.514	0.017	3286.5	1.204	0.697	3671.3	1.145	0.000
2523.6	1.402	0.002	2908.4	1.518	0.019	3293.2	1.170	0.682	3678.0	1.149	0.000
2530.3	1.403	0.002	2915.1	1.522	0.019	3300.0	1.140	0.663	3684.8	1.153	0.000
2537.1	1.404	0.003	2921.9	1.528	0.019	3306.7	1.114	0.643	3691.5	1.156	0.000
2543.8	1.404	0.003	2928.6	1.535	0.022	3313.5	1.091	0.622	3698.3	1.160	0.000
2550.6	1.405	0.003	2935.4	1.538	0.025	3320.2	1.071	0.603	3705.0	1.163	0.000
2557.3	1.405	0.002	2942.1	1.541	0.025	3327.0	1.053	0.582	3711.8	1.166	0.000
2564.1	1.407	0.002	2948.9	1.549	0.025	3333.7	1.038	0.563	3718.5	1.169	0.000
2570.8	1.408	0.002	2955.6	1.555	0.029	3340.5	1.024	0.544	3725.3	1.172	0.000
2577.6	1.409	0.002	2962.4	1.561	0.032	3347.2	1.010	0.526	3732.0	1.175	0.000
2584.3	1.410	0.002	2969.1	1.566	0.033	3354.0	0.998	0.508	3738.8	1.177	0.000
2591.1	1.411	0.002	2975.9	1.572	0.034	3360.7	0.987	0.493	3745.5	1.180	0.000
2597.8	1.413	0.002	2982.6	1.581	0.036	3367.5	0.975	0.476	3752.3	1.182	0.000
2604.6	1.414	0.002	2989.4	1.589	0.040	3374.2	0.962	0.459	3759.1	1.184	0.000
2611.3	1.415	0.002	2996.1	1.595	0.043	3381.0	0.951	0.443	3765.8	1.187	0.000
2618.1	1.416	0.001	3002.9	1.603	0.045	3387.7	0.940	0.426	3772.6	1.189	0.000
2624.8	1.417	0.000	3009.7	1.614	0.048	3394.5	0.928	0.407	3779.3	1.191	0.000
2631.6	1.419	0.000	3016.4	1.625	0.052	3401.2	0.917	0.387	3786.1	1.193	0.000
2638.3	1.420	0.000	3023.2	1.636	0.058	3408.0	0.908	0.366	3792.8	1.195	0.000
2645.1	1.422	0.000	3029.9	1.648	0.065	3414.7	0.900	0.343	3799.6	1.197	0.000
2651.8	1.424	0.000	3036.7	1.660	0.074	3421.5	0.893	0.320	3806.3	1.199	0.000
2658.6	1.425	0.000	3043.4	1.672	0.083	3428.2	0.888	0.297	3813.1	1.200	0.000
2665.3	1.427	0.000	3050.2	1.684	0.095	3435.0	0.885	0.273	3819.8	1.202	0.000
2672.1	1.429	0.000	3056.9	1.696	0.107	3441.7	0.885	0.248	3826.6	1.204	0.000
2678.8	1.430	0.000	3063.7	1.709	0.122	3448.5	0.887	0.225	3833.3	1.205	0.000
2685.6	1.432	0.000	3070.4	1.721	0.138	3455.2	0.891	0.202	3840.1	1.207	0.000
2692.3	1.434	0.000	3077.2	1.732	0.156	3462.0	0.898	0.181	3846.8	1.208	0.000
2699.1	1.436	0.000	3083.9	1.741	0.176	3468.7	0.905	0.162	3853.6	1.210	0.000
2705.8	1.438	0.000	3090.7	1.750	0.197	3475.5	0.914	0.144	3860.3	1.211	0.000
2712.6	1.440	0.000	3097.4	1.757	0.221	3482.2	0.922	0.128	3867.1	1.212	0.000
2719.3	1.443	0.000	3104.2	1.761	0.246	3489.0	0.931	0.113	3873.8	1.214	0.000
2726.1	1.445	0.000	3110.9	1.764	0.272	3495.7	0.940	0.100	3880.6	1.215	0.000
2732.8	1.447	0.000	3117.7	1.764	0.297	3502.5	0.949	0.087	3887.3	1.217	0.000
2739.6	1.450	0.000	3124.4	1.762	0.324	3509.3	0.959	0.075	3894.1	1.218	0.000
2746.4	1.452	.0.000	3131.2	1.759	0.350	3516.0	0.969	0.063	3900.8	1.219	0.000
2753.1	1.455	0.000	3137.9	1.753	0.378	3522.8	0.979	0.052	3907.6	1.220	0.000
2759.9	1.458	0.000	3144.7	1.745	0.404	3529.5	0.990	0.042	3914.3	1.221	0.000
2766.6	1.461	0.001	3151.4	1.734	0.430	3536.3	1.002	0.035	3921.1	1.222	0.000
2773.4	1.464	0.001	3158.2	1.723	0.456	3543.0	1.013	0.028	3927.8	1.224	0.000
2780.1	1.467	0.002	3164.9	1.709	0.480	3549.8	1.023	0.022	3934.6	1.225	0.000
2786.9	1.471	0.003	3171.7	1.694	0.505	3556.5	1.034	0.017	3941.3	1.226	0.000
2793.6	1.474	0.005	3178.4	1.677	0.528	3563.3	1.043	0.013	3948.1	1.227	0.000
2800.4	1.478	0.007	3185.2	1.658	0.549	3570.0	1.053	0.010	3954.8	1.228	0.000
2807.1	1.482	0.009	3191.9	1.638	0.571	3576.8	1.062	0.007	3961.6	1.228	0.000
2813.9	1.485	0.013	3198.7	1.617	0.591	3583.5	1.070	0.005	3968.3	1.230	0.000
2820.6	1.488	0.018	3205.4 3212.2	1.595	0.610	3590.3	1.078	0.004	3975.1	1.231	0.000
2827.4 2834.1	1.487	0.025		1.571	0.628	3597.0	1.085	0.002	3981.8	1.232	0.000
	1.479 1.478	0.027	3218.9 3225.7	1.545	0.647	3603.8	1.092	0.000	3988.6 3995.3	1.232	0.000
2840.9 2847.6	1.478	0.018 0.017	3232.4	1.519 1.490	0.662 0.678	3610.5 3617.3	1.099 1.105	0.000	3,56,5	1.233	0.000
2847.6	1.484	0.017	3232.4	1.458	0.693	3617.3 3624.0	1.111	0.000			
	1.489										
2861.1	1.407	0.018	3245.9	1.425	0.704	3630.8	1.116	0.000			

Name		10.0.0110.0.00010.00010.000
Name	Name	0.035 0.039 0.046 0.046 0.046 0.050 0.052 0.053 0.053 0.053 0.053
No. 1, No. 1,	n n n n n n n n n n n n n n n n n n n	1.352 1.353 1.353 1.353 1.353 1.350 1.344 1.339 1.340 1.348 1.338 1.338 1.338 1.338
No. No.	v (cm-1) 1183.4 1183.4 1183.4 1187.3 1187.3 1187.3 1187.3 1195.0 1196.9	1402.3 1408.1 1413.9 1413.9 1425.5 1431.3 1431.1 1442.9 1448.6 1460.2 1460.2 1477.6 1477.6
Name Name	K	000000000000000000000000000000000000000
n k √⟨⟨math⟩ n k k k k k k k k k k k k k k k k k k	n 1207 1210 1210 1210 1210 1210 1220 1220	1.268 1.269 1.270 1.271 1.273 1.274 1.275 1.278 1.278 1.279 1.281 1.281 1.283 1.284
Name Name	v (cm-1) 1069.6 1073.4 1073.4 1073.3 1073.3 1081.2 1083.1 1088.9 1090.8 1094.7 1088.9 1094.7 1106.3 1106.3 1106.3 1106.3 1116.3 1117.1	1152.6 1154.5 1156.4 1156.3 1160.3 1166.1 1166.1 1166.1 1169.9 1171.8 1173.8
n k √(cm ²) n k √(cm ²) n k √(cm ²) n k √(cm ²) n k √(cm ²) n k √(cm ²) n k √(cm ²) n k √(cm ²) n k √(cm ²) n x <t< td=""><td>k 0.0088 0.0055 0.0</td><td>0.058 0.041 0.024 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000</td></t<>	k 0.0088 0.0055 0.0	0.058 0.041 0.024 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
Name	1043 1043 1064 1064 1064 1064 1064 1064 1064 1064	1.109 1.112 1.113 1.113 1.114 1.114 1.117 1.118 1.118 1.118 1.118 1.119
Name	v (cm ⁻¹) 955.8 955.8 955.8 961.6 963.5 963.5 967.4 967.4 967.2 973.2 973.2 973.2 974.0 974.0 976.1 977.0 978.9 977.0 977.	1038.7 1040.5 1042.6 1044.5 1046.5 1052.2 1052.2 1054.2 1056.1 1056.1 1065.0 1065.0
n k √ cm²l n √ cm²l <t< td=""><td>k 0.379 0.430 0.446 0.446 0.447 0.447 0.513 0.513 0.513 0.514 0.51</td><td>0.218 0.207 0.199 0.189 0.184 0.164 0.164 0.164 0.129 0.129 0.129 0.108</td></t<>	k 0.379 0.430 0.446 0.446 0.447 0.447 0.513 0.513 0.513 0.514 0.51	0.218 0.207 0.199 0.189 0.184 0.164 0.164 0.164 0.129 0.129 0.129 0.108
n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k 0.03 1.731 0.000 1000	n 1,500	0.994 0.995 0.996 0.998 1.009 1.009 1.011 1.011 1.016 1.020 1.020 1.020 1.024 1.034 1.034
π k √ (cm ⁻¹) π k √ (cm ⁻¹) π k √ (cm ⁻¹) π k √ (cm ⁻¹) π k √ (cm ⁻¹) π k √ (cm ⁻¹) π k √ (cm ⁻¹) π k √ (cm ⁻¹) π </td <td>V (Cm⁻¹) 729.4 729.2 739.2 734.9 734.9 734.9 735.3 7</td> <td>924.9 926.9 926.9 930.7 934.6 936.5 936.5 942.3 944.2 944.2 944.2 944.2 950.0</td>	V (Cm ⁻¹) 729.4 729.2 739.2 734.9 734.9 734.9 735.3 7	924.9 926.9 926.9 930.7 934.6 936.5 936.5 942.3 944.2 944.2 944.2 944.2 950.0
n k √ (cm ⁻¹) n k √ (cm ⁻¹) n k √ (cm ⁻¹) 1.704 0.000 1645 1.744 0.296 278.7 1.319 0.123 394.5 1.704 0.000 1645 1.744 0.296 28.7 1.319 0.112 394.5 1.712 0.000 168.8 1.734 0.296 28.6 1.320 0.110 405.1 1.715 0.000 168.8 1.734 0.325 28.4 1.337 0.011 1.94.6 1.715 0.000 176.6 1.731 0.326 28.4 1.337 0.097 140.9 1.724 0.002 1.784 0.034 29.9 1.346 0.097 140.9 146.7 140.9 1.734 0.002 1.784 0.003 1.344 0.097 146.7 140.9 146.7 146.7 146.7 146.7 146.7 146.7 146.7 146.7 146.7 146.7 146.7	k 0.032 0.033 0.034 0.035 0.005	0.195 0.201 0.206 0.220 0.228 0.238 0.246 0.270 0.270 0.284 0.314 0.330
n k √ (cm ⁻¹) n k √ (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.603 1.604 1.607 1.612 1.615 1.615 1.627 1.631
n k v (cm ⁻¹) n k v (cm ⁻¹) n 1.704 0.000 164.9 1.74 0.29 278.7 1319 1.722 0.000 166.8 1.74 0.309 28.5 1330 1.731 0.030 186.8 1.74 0.309 28.5 1330 1.732 0.000 186.8 1.74 0.309 28.5 1330 1.732 0.000 176.5 1.73 0.32 28.6 1332 1.725 0.001 176.5 1.73 0.32 28.6 1334 1.734 0.008 186.1 1.71 0.365 294.2 1346 1.734 0.009 186.1 1.71 0.365 294.2 1346 1.734 0.009 186.1 1.70 0.32 294.2 1346 1.734 0.010 186.1 1.71 0.36 294.2 1346 1.734 0.010 186.1 1.71	v (cm ⁻¹) 392.5 394.5 394.5 394.5 396.4 410.9 410.	630.8 636.6 642.3 648.1 653.9 653.7 655.5 677.1 682.9 684.4 700.2 706.0
n k v (cm ⁻¹) n k v (cm ⁻¹) n k v (cm ⁻¹) n k v (cm ⁻¹) n k v (cm ⁻¹) n k v (cm ⁻¹) n r (cm ⁻¹) n r (cm ⁻¹) n r (cm ⁻¹) n r (cm ⁻¹) n <	k 1000000000000000000000000000000000000	0.011 0.012 0.014 0.014 0.017 0.023 0.024 0.024 0.027 0.027 0.027
n k v (cm ⁻¹) n k 1.704 0.000 164.9 1.744 0.296 1.710 0.000 164.9 1.744 0.297 1.711 0.000 166.9 1.740 0.297 1.712 0.000 168.8 1.744 0.297 1.713 0.003 170.7 1.735 0.321 1.715 0.003 170.7 1.735 0.321 1.715 0.004 170.7 1.734 0.309 1.730 0.005 170.6 1.734 0.301 1.731 0.004 170.7 1.735 0.321 1.732 0.003 172.6 1.746 0.34 1.733 0.004 180.4 1.715 0.366 1.734 0.001 180.4 1.715 0.366 1.734 0.013 182.1 1.706 0.352 1.734 0.014 180.2 1.701 0.362 1.734 0.	10 10 10 10 10 10 10 10	1,495 1,498 1,502 1,504 1,507 1,516 1,516 1,516 1,520 1,522 1,524 1,526 1,526 1,527 1,528 1,528 1,528 1,528 1,528 1,528 1,528 1,538
n k v (cm ⁻¹) n 1.704 0.000 164.9 1.744 1.710 0.000 166.9 1.740 1.731 0.000 166.9 1.744 1.732 0.000 166.9 1.745 1.734 0.001 170.6 1.735 1.734 0.002 170.7 1.735 1.734 0.002 176.5 1.733 1.735 0.003 182.3 1.708 1.735 0.004 180.4 1.715 1.736 0.005 182.3 1.708 1.737 0.006 180.4 1.715 1.737 0.007 182.3 1.708 1.737 0.007 182.3 1.708 1.738 0.012 188.1 1.694 1.746 0.014 180.0 1.694 1.747 0.017 182.3 1.708 1.749 0.012 188.1 1.694 1.749 0.012 <td>V (Cm⁻¹) 284.5 288.5 288.6 288.6 288.6 288.6 290.3 290.3 290.3 300.0 300.0 300.0 311.3 311.3 311.3 311.3 311.3 312.7 323.1 323.0 332.7 338.6 3</td> <td>361.7 363.6 363.5 367.5 367.5 369.4 371.3 377.1 377.1 377.1 377.1 388.0 388.7</td>	V (Cm ⁻¹) 284.5 288.5 288.6 288.6 288.6 288.6 290.3 290.3 290.3 300.0 300.0 300.0 311.3 311.3 311.3 311.3 311.3 312.7 323.1 323.0 332.7 338.6 3	361.7 363.6 363.5 367.5 367.5 369.4 371.3 377.1 377.1 377.1 377.1 388.0 388.7
New Year New Year	k k 0.0296 0.0309 0.0304 0.0321 0.0321 0.0321 0.0321 0.0352 0.0362	0.269 0.256 0.255 0.234 0.234 0.233 0.203 0.179 0.179 0.176 0.176 0.176 0.176 0.176
n k v 1.704 0.000 1.714 0.000 1.715 0.000 1.715 0.000 1.715 0.000 1.715 0.000 1.715 0.000 1.734 0.000 1.734 0.000 1.734 0.000 1.734 0.000 1.735 0.000 1.736 0.001 1.736 0.001 1.736 0.001 1.736 0.001 1.736 0.001 1.736 0.001 1.736 0.001 1.736 0.001 1.736 0.000 1.736 0.000 1.736 0.000 1.736 0.000 1.736 0.000 1.736 0.000 1.736 0.000 1.736 0.000 1.737 0.000 1.824 0.000 1.824 0.000 1.831 0.158 1.837 0.164 1.831 0.158 1.834 0.164 1.831 0.158 1.834 0.201 1.831 0.158 1.834 0.201 1.831 0.158 1.837 0.100 1.831 0.158 1.837 0.100 1.831 0.158 1.837 0.100 1.831 0.158 1.831 0.201 1.732 0.277 1.732 0.201 1.732 0.277 1.732 0.201 1.732 0.277 1.732 0.201 1.732 0.201 1.732 0.201 1.732 0.201 1.735 0.284 1.735 0.286 1.735 0.290	n 1.744 1.744 1.735 1.73	1.294 1.311 1.305 1.306 1.300 1.300 1.300 1.307 1.309 1.311 1.312 1.313 1.313
n 1704 1710 1710 1711 1722 1733 1734 1734 1734 1734 1734 1734 1734		247.9 249.8 253.7 253.7 253.7 253.7 253.9 263.3 267.2 267.2 267.2 271.0 271.0 274.9
	k 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00	0.177 0.201 0.190 0.217 0.246 0.264 0.277 0.277 0.287 0.286
v (cm-1) 53.0 53.0 53.0 58.8 66.8 66.8 66.5 66		1.836 1.827 1.824 1.824 1.831 1.808 1.796 1.777 1.777 1.777 1.765 1.755
	V (Cm ⁻¹) 55.0 55.0 56.9	134.1 136.0 137.9 139.9 141.8 143.7 145.6 149.5 151.4 153.4 153.4 153.4 153.1 159.1

K	0.000
n 1.155 1.155 1.155 1.155 1.155 1.155 1.155 1.155 1.156 1.157 1.158	1.230 1.231 1.232
v (cm-1) 3681.4 3687.5 3688.8 3689.3 3689.3 3689.3 3689.3 3770.6 3710.3	3988.1 3993.9 3999.7
	0.000
$\Pi = \Pi^{\prime}$	1.131 1.135 1.139 1.143
V (cm-1) 3345.0 3345.0 3345.0 3345.8 3357.3 3363.1 3368.9 3357.3 3368.9 3377.9 3403.6 3550.6	3652.5 3658.3 3664.1 3669.8
k 0.0050 0.0057 0.0057 0.0057 0.0057 0.0057 0.0138	0.612 0.592 0.572 0.553
	1.028 1.014 1.023 1.012
V (Cm-1) 3004.3 3004.3 3004.3 3010.1 3010.1 3010.1 3010.1 3010.1 3021.7 3021.7 3023.2 3033.3 3033.1 3044.9 3056.4 3068.0 3068.0 3068.0 3068.0 3068.0 3068.0 3068.0 3068.0 3114.3 314.3 314	3316.8 3322.6 3328.4 3334.2
k 0.000 0.00	0.038 0.042 0.046 0.048
n 1.427 1.427 1.423 1.423 1.423 1.423 1.433 1.433 1.433 1.433 1.44	1.584 1.591 1.599 1.605
V (Cm-1) 2668.7 2668.7 2668.7 2668.7 2668.7 2686.1 2691.9 2691.9 2691.9 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.7 2773.7 2773.7 2773.9	2981.2 2987.0 2992.8 2998.6
K K K K K K K K K K K K K K	000000
n 1.369 1.370 1.371 1.371 1.371 1.372 1.373 1.373 1.373 1.374 1.373 1.374 1.374 1.374 1.374 1.374 1.376 1.377 1.377 1.376 1.377 1.377 1.376 1.377 1.377 1.376 1.377 1.37	1.420 1.421 1.422 1.424 1.425
v (cm-1) 2327.3 2332.1 2333.1 2333.1 2333.1 2338.9 2344.6 2350.4 2350.4 2350.4 2350.4 2350.4 2350.4 2350.7 2402.5 2360.7 2402.5 2500.9	2639.8 2645.6 2651.3 2657.1 2662.9
K 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	0.013 0.012 0.012 0.011
n 1374 1375 1375 1375 1375 1373 1373 1373 1373	1.367 1.367 1.367 1.368 1.369
V (Cm-1) 21286-7 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-5 2130-7 2144-0 214-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0 2144-0	2298.4 2304.1 2309.9 2315.7 2321.5
K	0.008 0.008 0.008 0.008
n n n n n n n n n n n n n n n n n n n	1.371 1.372 1.372 1.372 1.373
v (cm-1) 1836.4 1847.2 1847.2 1853.7 1853.7 1853.7 1876.9 1876.9 1876.9 1876.9 1876.9 1977.4 1977.4 1977.4 1977.4 1963.7	2117.0 2119.0 2120.9 2122.8 2124.7
k k k k k k k k k k k k k k k k k k k	0.007 0.005 0.005 0.005
1338 1338 1338 1338 1338 1338 1338 1338	1.316 1.318 1.320 1.321 1.323
V (Cm-1) 1504.9 1604.9 1512.3 1512.3 1512.3 1512.3 1512.3 1512.3 1522.7 1522.8 1522.8 1522.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9 1722.9	1807.4 1813.2 1819.0 1824.8 1830.6

222222222222222222222222222222222222222	64455115888666888844448888555555
K K K K K K K K K K K K K K K K K K K	
13380 13380 13380 13380 13380 13379 13379 13379 13378	1372 1372 1373 1373 1373 1373 1380 1380 1380 1380 1380 1380 1380 138
v (cm ⁻¹) 2166.7 2108.6 2170.6 2172.5 2172.5 2174.4 2172.5 2172.5 2172.5 2182.1 2182.1 2183.1 2183.0 2183.6 2193.6 2193.6 2219.7 22219.7 2	2300.0 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	0.007 0.008 0.008 0.008 0.008 0.009 0.009 0.012 0.012 0.012 0.013
n 1354 1355 1355 1356 1356 1360 1360 1360 1360 1360 1360 1360 136	1378 1378 1378 1378 1379 1379 1379 1376 1377 1378 1379 1379 1379 1379
v (cm-1) 1953.4 1963.2 1969.0 1974.8 1980.6 1980.6 1980.6 1980.3 2003.7 2003.7 2003.7 2004.2 2011.3 2057.8 2057.8 2057.8 2067.4	2110.8 2116.5 2116.5 2118.5 2118.5 2120.4 2122.3 2122.2 2122.2 2123.0 2133.0 21
k 0.0059 0.0060 0.0061 0.0061 0.0061 0.0061 0.0060	0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0
n 1.342 1.342 1.336 1.336 1.336 1.336 1.30	1.325 1.325 1.325 1.325 1.325 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335 1.335
v (cm-1) 1616.0 1616.0 1627.6 1633.3 1639.1 1644.9 1656.7 1656.7 1656.7 1679.6 1702.8 1717.4 1725.9 1737.5 1749.1 1754.9 17725.9	1789.0 1789.0 1801.2 1812.7 1812.7 1812.7 1824.3 1835.9 1847.5 1853.0 1853.0 1853.0 1853.0 1853.0 1853.0 1853.0 1853.0 1853.0 1853.0 1853.0 1864.8 1876.4 18
k 0.012 0.013 0.013 0.014 0.016 0.020 0.020 0.023 0.023 0.023 0.023 0.030 0.030 0.044 0.044 0.050 0.050	0.055 0.054 0.054 0.059 0.048 0.048 0.048 0.048 0.049 0.059 0.055 0.055 0.055 0.055 0.055 0.055 0.055 0.055 0.055
	1355 1355 1355 1355 1355 1346 1350 1350 1350 1350 1350 1350 1350 1350
v (cm-1) 1274.6 1274.6 1286.1 1286.1 1291.9 1297.7 1303.5 1310.9 1312.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1332.6 1340.0 1357.1 1367.1 1367.1 1372.9	143.9. 1453.9. 1453.9. 1455.5. 1477.1. 1482.9. 1488.7. 1500.2. 1500.2. 1511.8. 1511.8. 1511.8. 1511.8. 1523.2. 1533.0. 1540.8.
x 0.000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	0.000 0.000
n 1284 1283 1284 1283 1283 1274 1275 1275 1275 1276 1276 1276 1276 1276 1276 1276 1276	1500 1500 1500 1500 1500 1500 1500 1500
V (cm-1) 1109.6 1113.5 1113.5 1113.5 1115.1 1121.2 1121.2 1122.1 1123.8 1134.7 1136.6 1138.6 1138.6 1138.6 1138.6 1138.6 1138.6 1138.6 1138.7 1150.1 1150.1 1150.1 1150.1 1150.1 1150.1 1150.1	1107.5 1173.4 1173.2 1173.2 1173.1 1173.1 1173.1 1182.9 1188.7 1188.7 1190.6 1194.5 1196.4 1196.4 1196.4 1196.4 1196.4 1196.4 1196.5 1196.7 11
k	0.000000000000000000000000000000000000
n 1221 1220 1220 1220 1220 1220 1220 122	1209 1219 1219 1223 1223 1223 1223 1234 1240 1254 1256 1256 1256 1268 1268 1270 1270 1270 1270 1270 1270 1270
v (cm-1) 995.8 995.8 999.7 1001.5 1003.5 1007.4 1009.3 1011.3 1011.3 1012.8 1022.8 1022.8 1028.6 1036.7 1036.3 1036.3 1036.3 1044.0 1044.0 1044.0 1044.0	1055.6 1055.6 1055.6 1067.3 1065.3 1065.3 1065.3 1067.2 1074.9 1074.9 1074.9 1074.9 1074.9 1076.8 1088.4 1088.4 1090.3 1090.3 1090.3 1101.9 1101.9
k 0.449 0.449 0.449 0.449 0.449 0.416 0.330 0.330 0.330 0.233 0.233 0.238 0.248 0.278	0.033 0.005 0.008 0.008 0.008 0.007 0.005 0.005 0.005 0.003 0.003 0.002 0.003 0.002 0.003
n 1.256 1.236 1.238 1.164 1.125 1.105 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.068 1.06	1.059 1.066 1.070 1.073 1.073 1.073 1.073 1.086 1.086 1.095 1.095 1.106 1.117 1.113 1.113 1.113 1.114 1.115 1.115 1.116
v (cm-1) 846.3 857.9 863.7 863.7 863.7 863.7 863.7 863.7 863.7 892.6 892.6 892.6 892.6 901.3 903.2 901.3 902.2 902.2 903.2 903.2 903.2 903.2 903.2 903.2 903.2 903.2 903.2 903.2 903.3 903.2 903.3 903	943.9 943.7 943.7 943.7 943.7 953.3 953.3 953.3 965.0 966.9 966.9 972.7 972.7 972.7 972.7 988.1 988.1 988.1 988.1 990.0
k	0.11/8 0.202 0.223 0.223 0.234 0.285 0.331 0.331 0.337 0.418 0.454 0.454 0.494 0.504 0.504 0.504
n 1576 1576 1577 1578 1578 1588 1588 1588 1588 1588	
v (cm ⁻¹) v (cm ⁻¹) S04.9 S16.5 S16.5 S16.5 S16.5 S17.3 S23.8 S33.8 S33.8 S45.4 S45.4 S45.4 S45.4 S45.4 S45.9 S45.9 S46.9 S66.9 S66.9 S66.9 S66.9 S66.9 S66.9	68.43.7 69.59.7 69.59.7 701.7 701.7 713.2 713.2 713.6 713.6 713.6 713.6 713.6 713.6 713.6 713.6 713.7 748.0 765.3 765.3 776.9 785.7

				IAL	ole 21:	—Continu	eu 				
ν (cm ⁻¹)	n	k	v (cm ⁻¹)	n	k	v (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k
2483.0	1.397	0.000	2867.9	1.505	0.014	3252.7	1.328	0.773	3637.5	1.124	0.000
2489.8	1.399	0.001	2874.6	1.510	0.014	3259.5	1.283	0.772	3644.3	1.129	0.000
2496.6 2503.3	1.400 1.401	0.001	2881.4	1.515	0.014	3266.2 3273.0	1.238	0.764	3651.0	1.133	0.000
2510.1	1.401	0.001 0.001	2888.1 2894.9	1.520 1.525	0.015	3279.7	1.196	0.751 0.733	3657.8 3664.5	1.138 1.142	0.000
	1.404	0.001	2894.9	1.530	0.016	3279.7	1.157 1.122	0.733	3671.3	1.142	0.000
2516.8 2523.6	1.405	0.002	2901.6	1.535	0.018 0.020	3293.2	1.091	0.711	3678.0	1.140	0.000
2530.3	1.406	0.002	2915.1	1.539	0.020	3300.0	1.066	0.660	3684.8	1.154	0.000
2537.1	1.407	0.002	2921.9	1.546	0.022	3306.7	1.044	0.633	3691.5	1.157	0.000
2543.8	1.407	0.002	2928.6	1.551	0.027	3313.5	1.027	0.609	3698.3	1.160	0.000
2550.6	1.408	0.002	2935.4	1.555	0.029	3320.2	1.013	0.585	3705.0	1.164	0.000
2557.3	1.409	0.002	2942.1	1.561	0.030	3327.0	1.000	0.562	3711.8	1.167	0.000
2564.1	1.410	0.002	2948.9	1.567	0.033	3333.7	0.988	0.540	3718.5	1.170	0.000
2570.8	1.412	0.001	2955.6	1.572	0.036	3340.5	0.978	0.522	3725.3	1.173	0.000
2577.6	1.413	0.001	2962.4	1.577	0.038	3347.2	0.969	0.504	3732.0	1.175	0.000
2584.3	1.414	0.001	2969.1	1.583	0.039	3354.0	0.959	0.487	3738.8	1.178	0.000
2591.1	1.416	0.001	2975.9	1.591	0.040	3360.7	0.949	0.470	3745.5	1.180	0.000
2597.8	1.417	0.002	2982.6	1.600	0.044	3367.5	0.939	0.453	3752.3	1.182	0.000
2604.6	1.418	0.000	2989.4	1.608	0.049	3374.2	0.927	0.436	3759.1	1.185	0.000
2611.3	1.419	0.000	2996.1	1.615	0.052	3381.0	0.917	0.419	3765.8	1.187	0.000
2618.1	1.421	0.000	3002.9	1.624	0.055	3387.7	0.907	0.400	3772.6	1.189	0.000
2624.8	1.422	0.000	3009.7	1.634	0.059	3394.5	0.897	0.379	3779.3	1.191	0.000
2631.6	1.424	0.000	3016.4	1.645	0.064	3401.2	0.887	0.357	3786.1	1.193	0.000
2638.3	1.425	0.000	3023.2	1.657	0.071	3408.0	0.880	0.334	3792.8	1.195	0.000
2645.1	1.427	0.000	3029.9	1.669	0.078	3414.7	0.875	0.311	3799.6	1.197	0.000
2651.8	1.429	0.000	3036.7	1.682	0.087	3421.5	0.872	0.287	3806.3	1.198	0.000
2658.6	1.430	0.000	3043.4	1.694	0.098	3428.2	0.869	0.262	3813.1	1.200	0.000
2665.3	1.432	0.000	3050.2	1.707	0.109	3435.0	0.871	0.237	3819.8	1.202	0.000
2672.1	1.434	0.000	3056.9	1.720	0.123	3441.7	0.874	0.213	3826.6	1.203	0.000
2678.8	1.436	0.000	3063.7	1.733	0.138	3448.5	0.879	0.190	3833.3	1.205	0.000
2685.6	1.438	0.000	3070.4	1.746	0.155	3455.2	0.887	0.167	3840.1	1.206	0.000
2692.3	1.440 1.442	0.000	3077.2	1.758	0.174	3462.0	0.896	0.148	3846.8	1.208	0.000
2699.1 2705.8	1.444	0.000	3083.9 3090.7	1.770 1.779	0.196 0.220	3468.7 3475.5	0.906 0.916	0.131	3853.6 3860.3	1.209 1.211	0.000
2712.6	1.446	0.000	3090.7	1.787	0.220	3473.3	0.910	0.116 0.101	3867.1	1.211	0.000
2719.3	1.449	0.000	3104.2	1.793	0.247	3489.0	0.927	0.101	3873.8	1.212	0.000
2726.1	1.451	0.000	3110.9	1.795	0.306	3495.7	0.937	0.036	3880.6	1.215	0.000
2732.8	1.453	0.000	3117.7	1.795	0.336	3502.5	0.958	0.065	3887.3	1.216	0.000
2739.6	1.456	0.000	3124.4	1.792	0.367	3509.3	0.969	0.055	3894.1	1.217	0.000
2746.4	1.459	0.000	3131.2	1.786	0.399	3516.0	0.980	0.045	3900.8	1.218	0.000
2753.1	1.462	0.000	3137.9	1.776	0.429	3522.8	0.991	0.037	3907.6	1.219	0.000
2759.9	1.464	0.000	3144.7	1.765	0.460	3529.5	1.002	0.030	3914.3	1.220	0.000
2766.6	1.468	0.001	3151.4	1.751	0.488	3536.3	1.013	0.025	3921.1	1.221	0.000
2773.4	1.471	0.001	3158.2	1.734	0.517	3543.0	1.023	0.020	3927.8	1.223	0.000
2780.1	1.474	0.003	3164.9	1.716	0.542	3549.8	1.033	0.015	3934.6	1.224	0.000
2786.9	1.478	0.003	3171.7	1.696	0.568	3556.5	1.043	0.012	3941.3	1.225	0.000
2793.6	1.481	0.005	3178.4	1.675	0.591	3563.3	1.052	0.009	3948.1	1.226	0.000
2800.4	1.485	0.007	3185.2	1.652	0.614	3570.0	1.060	0.006	3954.8	1.227	0.000
2807.1	1.488	0.009	3191.9	1.629	0.634	3576.8	1.068	0.005	3961.6	1.228	0.000
2813.9	1.492	0.012	3198.7	1.605	0.654	3583.5	1.076	0.003	3968.3	1.229	0.000
2820.6	1.494	0.016	3205.4	1.579	0.674	3590.3	1.083	0.000	3975.1	1.230	0.000
2827.4	1.494	0.021	3212.2	1.551	0.695	3597.0	1.090	0.000	3981.8	1.230	0.000
2834.1	1.489	0.023	3218.9	1.522	0.715	3603.8	1.096	0.000	3988.6	1.231	0.000
2840.9	1.490	0.017	3225.7	1.488	0.731	3610.5	1.102	0.000	3995.3	1.232	0.000
2847.6	1.494	0.015	3232.4	1.453	0.748	3617.3	1.108	0.000	2605.1	1.412	0.002
2854.4	1.498	0.015	3239.2	1.414	0.761	3624.0	1.114	0.000	2610.8	1.413	0.002
2861.1	1.501	0.015	3245.9	1.372	0.769	3630.8	1.119	0.000	2616.6	1.414	0.002

TABLE 2F H_2 O:CH $_3$ OH:CO:NH $_3$ = 100:10:1:1 at 140 K

×	0.000	0.000	0.000	0.000	0.000	000	0.000	0.002	0.002	2000	0000	0.005	0.005	900.	0.006	2000	300	0.000	0.010	0.010	0.012	0.012	0.013	0.014	0.015	0.016	0.017	0.017	0.01	0.020	0.023	0.024	0.026	0.027	0.028	0.034	0.037	0.041	0.046	0.032	0.052	0.054	0.055	0.058	0.034	0.056	0.058	0.059	0.055
E	1.299	1.300	1.301	1.303	1.304	1.306	1.309	1.313	1.314	1.319	1.323	1.324	1.326	1.329	1.330	1.332	1.334	1 338	1 340	1341	343	1.345	1.347	1.347	1.349	1.351	1.353	1.355	1 350	1360	1.360	1.361	1.363	1.365	1.30/	1.372	1.370	1.370	1.370	1.365	1.363	1.364	1.366	1.357	1.350	1.355	1.356	1.354	1.352
v (cm ⁻¹)	1183.4	1187.3	1189.2	1193.1	1195.0	1198.8	1205.6	1211.4	1273.0	1228.7	1234.5	1240.3	1246.1	1251.9	1257.7	1265.3	1275.0	12808	1286.6	1292.4	1298.2	1304.0	1309.8	1315.5	1321.3	1327.1	1332.9	1338.7	13503	1356.1	1361.8	1367.6	1373.4	1379.2	1300.8	1396.6	1402.3	1408.1	1413.9	1425.5	1431.3	1437.1	1442.9	1448.6	1450.2	1466.0	1471.8	1477.6	1489.2
~	0.000	0.000	0.00	0.000	0.00	000	0.000	0.002	30.0	0.00	0.00	0.004	0.00	90.0	0.000	9.0	30.0	0.00	0.010	0.013	0.015	0.017	0.018	0.019	0.019	0.018	0.016	0.015	0.012	0.00	0.00	0.003	0.000	0.000		0.00	0.000	0.000	000		0000	0.000	0.000	000	000	0.000	0.000	0000	0.000
l c	1.214	1.222	1.226	1.232	1.235	1.239	1.242	42.5	1 248	1.250	1.251	1.253	1.255	1.257	1.259	107.1	1 265	1 266	1 268	1 268	1.268	1.269	1.267	1.265	1.263	1.264	1.261	707.1	1 261	1 262	1.264	1.266	1.268	1.271	1 275	1.277	1.278	1.281	1.282	1 285	1.286	1.287	1.288	1.289	1.290	1.293	1.294	1.295	1.297
v (cm ⁻¹)	1069.6	1073.5	1075.4	1079.3	1081.2	1085.1	1087.0	1088.9	1090.8	1094.7	1096.6	1098.5	1100.5	1102.4	1104.3	1100.5	11101	1112.0	11140	11159	1117.8	1119.8	1121.7	1123.6	1125.5	1127.5	1129.4	1132 3	1135.2	1137.1	1139.0	1141.0	1142.9	1144.8	1140.6	1150.6	1152.6	1154.5	1156.4	1160.3	1162.2	1.64.1	1166.1	1168.0	1171.8	1173.8	1175.7	1177.6	1181.5
-×	0.145	0.126	0.117	0.101	0.094	0.080	0.075	0.070	0.00	0.056	0.051	0.048	0.045	4 5	0.041	0.030	0.03	0.038	0.00	200	0.056	0.065	0.075	0.082	0.087	0.087	0.085	70.0	0.074	0.070	0.088	0.094	0.103	0.112	0.119	0.126	0.121	0.109	0.087	0.033	0.016	0.006	0.000	900	000	0.00	0.000	000	0.000
=	1.036	1.05 4.05 4.05 7.05 7.05 7.05 7.05 7.05 7.05 7.05 7	1.049	1.059	996	1.079	1.086	1.092	1.098	1.112	1.119	1.126	1.134	1.141	1.149	1.13/	1.100	184	1 195	1 202	1.205	1.214	1.215	1.208	1.200	1.201	1.193	3.5	1 208	1.200	1.209	1.215	1.208	1.198	1.197	1.16	1.143	1.131	1.113	1.117	1.130	1.143	1.155	1.166	1.182	1.189	1.195	1.200	1.210
v (cm ⁻¹)	955.8	959.7	961.6	965.4	967.4	909.3	973.2	975.1	0.776	980.9	982.8	984.7	986.7	988.6	990.5	992.3	9063	998.2	10002	1002.1	1004.0	1006.0	1007.9	1009.8	1011.7	1013.7	1015.6	5 0101	1021.4	1023.3	1025.2	1027.2	1029.1	1031.0	1033.0	1036.8	1038.7	1040.7	1042.6	1046.5	1048.4	1050.3	1052.2	1054.2	1058.0	1060.0	1061.9	1063.8	1067.7
×	0.205	0.234	0.253	0.293	0.312	0.354	0.374	0.395	0.415	0.456	0.478	0.495	0.504	0.517	0.523	0.520	0.320	0.520	0.515	0.507	0.499	0.490	0.478	0.467	0.451	0.436	0.421	0.414	0.400	0.391	0.384	0.376	0.366	0.357	0.346	0.327	0.318	0.308	0.296	0.275	0.263	0.254	0.242	0.230	0.207	0.198	0.187	0.175	0.155
E .	1.649	1.656	1.660	1.657	1.656	1.639	1.631	1.621	1.003	1.573	1.547	1.522	1.499	1.466	1.437	1 202	1 349	1.326	1 301	1.271	1.248	1.227	1.200	1.177	1.156	1.129	1.114	1.100	1.020	1.081	1.075	1.068	1.063	1.059	1.033	1.042	1.037	1.032	1.029	1.026	1.023	1.022	1.020	1.020	1.019	1.020	1.022	1.025	1.031
v (cm ⁻¹)	723.4	734.9	740.7	752.3	758.1	769.7	775.4	781.2	0.707 20.00	798.6	804.4	810.2	816.0	821.7	827.5	930.1	844 9	850.7	856.5	862.2	868.0	873.8	879.6	885.4	891.2	897.0	8.06	903.7	907.6	906.5	911.4	913.4	915.3	917.2	1.616	923.0	924.9	926.9	9.58.8	932.7	934.6	936.5	938.4	940.4	944.2	946.2	948.1	950.0 951.9	953.9
×	0.005	0.005	90.0	0.00	0.005	0.003	0.000	0.011	0.013	0.014	0.016	0.016	0.016	0.013	0.017	0.010	0.023	0.025	0.025	0.026	0.028	0.031	0.037	0.042	0.046	0.051	0.034	0.058	0.059	0.061	0.064	0.063	0.066	0.000	0.072	9.00	0.078	0.082	0000	0.097	0.100	0.110	0.118	0.137	0.14	0.154	0.161	0.172	0.192
=	1.423	1.426	1.428	1.439	1.446	1.457	1.462	1.465	1.472	1.474	1.478	1.480	1.484	1.488	1.493	1.502	1.506	1.508	1.512	1.516	1.522	1.527	1.532	1.534	1.536	1.537	1.539	1.541	1.543	1.544	1.547	1.550	1.553	1.557	1.565	1.570	1.576	1.580	1.303	1.598	1.601	1.610	1.614	1.621	1.625	1.628	1.631	1.638	1.643
v (cm ⁻¹)	392.5	396.4	398.3	410.9	416.7	428.2	434.0	439.8	4514	457.2	463.0	468.7	474.5	480.3	480.1	497.7	503.5	509.2	515.0	520.8	526.6	532.4	538.2	544.0	549.8	555.5	567.1	572.9	578.7	584.5	590.3	596.1	801.8	6134	619.2	625.0	630.8	636.6	648.1	623.9	659.7	665.5	671.3	682.9	9.889	694.4	700.2	711.8	717.6
×	0.185	0.160	0.153	0.133			0.100	0.091	0.072	0.06	0.058	0.053	0.043	0.039	0.031	0.020	0.017	0.014	0.010	0.00	0.002	0.003	0.00	0.001	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.002	0.00	0.00	0.003	0.002	0.00	0.004	000	0.005	9000	0.005	0.00	900	0.00	0.001	9 5	90.0	0.004
п	1.175	1.18	1.190	1.201	1.206	1.214	1.215	1.220	1.225	1.233	1.239	1.243	1.249	757	1 272	1 270	1.287	1.294	1.300	1.308	1.313	1.320	1.326	1.331	1.337	1.342	1.348	1.357	1.361	1.364	1.368	1.371	1.375	1.378	1.383	1.386	1.389	1.391	1396	1.398	1.400	1.403	1.405	1.409	1.410	1.414	1.415	1.417	1.421
v (cm ⁻¹)	278.7	282.6	284.5	288.4	290.3	294.2	296.1	298.0	301.9	303.8	305.7	307.7	309.6	311.5	315.4	317.3	319.2	321.2	323.1	325.0	327.0	328.9	330.8	332.7	334.7	336.6	340.5	342.4	344.3	346.3	348.2	350.1	352.0	355.0	357.8	359.8	361.7	363.6	367.5	369.4	371.3	373.3	375.2	379.0	381.0	382.9	384.8	388.7	390.6
×	0.343	0.338	0.318	0.314	0.309	0.296	0.326	0.342	0.330	0.380	0.391	0.398	0.416	0.424	0.441	0.450	0.469	0.473	0.484	0.488	0.496	0.507	0.521	0.546	0.567	0.597	25.00	0.674	0.651	0.608	0.567	0.536	0.509	0.463	444	0.429	0.416	0.402	0.368	0.352	0.338	0.324	0.307	0.280	0.271	0.258	0.246	0.217	0.206
=	1.700	1.679	1.679	1.681	1.694	1.720	1.731	1.730	1.717	1.709	1.703	1.700	1.696	1.08/	1.080	3	749	1.642	1.632	1.626	1.620	1.614	1.607	1.597	1.579	1.565	1.32/	1.403	1.343	1.302	1.282	1.268	1.254	1 234	1.229	1.221	1.216	1.211	200	1.194	1.192	1.185	1.186	1.187	1.186	1.183	1.181	1.176	1.173
v (cm ⁻¹)	164.9	168.8	170.7	174.6	176.5	180.4	182.3	184.2	188.1	190.0	191.9	193.9	195.8	197.7	201.6	203.5	205.4	207.4	209.3	211.2	213.2	215.1	217.0	218.9	220.9	222.8	224.1	228.6	230.5	232.4	234.4	236.3	238.2	240.2	244.0	245.9	247.9	249.8	253.7	255.6	257.5	259.4	261.4	265.2	267.2	269.1	271.0	274.9	276.8
×	0.021	0.043	0.066	0.065	0.059	0.056	0.056	0.059	000	0.065	0.065	0.067	0.069	0.07	0.07	0.021	0.052	0.076	0.038	0.062	0.058	0.064	0.038	0.094	0.103	0.054	0.622	0.106	0.114	0.123	0.132	0.129	0.148	0.142	0.150	0.168	0.171	0.194	0.136	0.247	0.262	0.281	0.291	0.303	0.324	0.344	0.341	0.353	0.348
_ u	1.768	1.755	1.750	1.742	1.742	1.739	1.738	1.739	1.738	1.737	1.737	1.737	1.735	1./32	1.721	1 728	1.759	1.746	1.760	1.774	1.780	1.774	1.797	1.836	1.757	1.815	1.798	1.781	1.788	1.800	1.802	1.815	1.814	1.820	1.822	1.820	1.827	1.818	1.857	1.849	1.837	1.832	1.821	1.805	1.797	1.783	1.766	1.730	1.714
v (cm ⁻¹)	51.1	55.0	56.9	8.09	62.7	66.5	68.5	70.4 4. c.	74.3	76.2	78.1	80.1	82.0	62.9	82.8	80.7	91.6	93.6	95.5	97.4	99.3	101.3	103.2	105.1	107.1	0.601	110.9	114.8	116.7	118.6	120.6	122.5	124.4	128.3	130.2	132.1	134.1	136.0	139.9	141.8	143.7	145.6	147.6	151.4	153.4	155.3	157.2	1.61.1	163.0

Victory 1						_				_	_	_			_	_		_			_	_		_		-	_	_	_		_			_		_						_						_	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	<u> </u>	0.000	0.000	0.00	0.00	0.000	00.0		0.000	0.000	0.00	900	300	0000	0.000	0.000	0.000	0.00	000	800	0.000	0.000	0.000	0.000	0.000	0000			0.000	0.000	0.000	0000		0.00	0.000	0000	000	0.000	0.000		0000	0.000	0.000	999	0.00	0.000	900	2.5	
March Marc	l		1.151	1.154	1.159	1.161	1.18 26.1	1.168	1.170	1.172	1.174	1.176	1.1/8	1.182	1.183	1.185	1.187	1.189	961.1	1.193	1.195	1.196	1.198	1.199	1.200	1.202	2021	25.5	1.207	1.208	1.209	1.210	1 212	1.213	1.215	1.216	1.218	1.218	1.219	1.220	1.222	1.223	1.224	1.224	1.226	1.227	1.227	77.1	
Column C	v (cm ⁻¹)	3675.6	3687.2	3693.0	3704.6	3710.3	3716.1	3727.7	3733.5	3739.3	3745.1	3756.6	3762 4	3768.2	3774.0	3779.8	3785.6	3791.4	3797.1	3808.7	3814.5	3820.3	3826.1	3831.9	3837.7	3843.4	3849.2	3860.8	3866.6	3872.4	3878.2	3884.0	3895.5	3901.3	3907.1	3912.9	3924.5	3930.2	3936.0	3941.8	3953.4	3959.2	3965.0	3970.8	3982.3	3988.1	3993.9		
March Marc	74	0.470	0.447	0.436	0.474	0.393	0.375	0.336	0.313	0.288	0.265	0.241	0.210	0.175	0.154	0.134	0.118	0.10	0.094	0.076	0.068	0.060	0.053	0.046	0.041	0.036	0.032	0.028	0.020	0.017	0.015	0.012	0.010	0.007	0.006	0.005	0.003	0.001	0.000	0000	0.00	0.000	0.000	0.000	0.00	0.000	000	0.000	
Kerry K. V (pp. 1) K. V (pp. 1) K. V (pp. 1) B. V (p	F	0.935	0.921	0.880	0.861	0.867	0.858	0.855	0.847	0.821	0.820	0.833	0.650	0.855	0.864	0.863	0.876	0.889	0.906	0.932	0.942	0.952	0.957	0.967	0.976	0.987	1.0950	1013	1.022	1.028	1.035	1.043	1.050	1.063	1.069	1.074	1.085	1.090	1.095	1.100	1.18	1.113	1.118	1.121	1.129	1.132	1.135	1.142	
Name	v (cm ⁻¹)	3340.0	3351.6	3357.3	3368.9	3374.7	3380.5	3392.1	3397.9	3403.6	3409.4	3415.2	3426.8	3432.6	3438.4	3444.1	3449.9	3455.7	3461.5	3473.1	3478.9	3484.7	3490.4	3496.2	3502.0	3507.8	3513.0	3525.2	3531.0	3536.7	3542.5	3548.3	3559.9	3565.7	3571.5	3577.2	3588.8	3594.6	3600.4	3606.2	3617.8	3623.5	3629.3	3635.1	3646.7	3652.5	3658.3	3669.8	
Comp. 1	*	0.074	0.083	0.00	0.105	0.114	0.125	0.151	0.167	0.184	0.203	0.225	0.231	0.319	0.358	0.399	0.442	0.483	0.523	0.596	0.622	0.641	959.0	0.670	0.678	0.692	0.707	0.757	0.786	0.816	0.856	0.893	0.933	0.998	0.991	0.956	0.865	0.821	0.777	0.747	0.680	0.647	0.619	0.592	0.548	0.533	0.514	0.482	
Very 1 m k V(cm²) n k V(cm			1.691	1.76	1.735	1.748	1.762	1.70	1.793	1.815	1.830	1.856	1.865	1.875	1.881	1.895	1.890	1.900	1.883	1.792	1.762	1.733	1.732	1.709	1.718	1.701	1.088	1.605	1.586	1.597	1.570	1.571	1.377	1.296	1.212	1.172	1.101	1.063	1.034	0.957	0.930	0.949	0.942	0.961	0.951	0.906	0.904	0.918	
National Process National Pr	v (cm ⁻¹)	3004.3	3015.9	3021.7	3033.3	3039.1	3044.9	3056.4	3062.2	3068.0	3073.8	30/9.6	3091.4	3096.9	3102.7	3108.5	3114.3	3120.1	3125.9	3137.4	3143.2	3149.0	3154.8	3160.6	3166.4	3172.2	31/8.0	3189.5	3195.3	3201.1	3206.9	3212.7	3224.2	3230.0	3235.8	3241.6	3253.2	3259.0	3264.8	3270.5	3282.1	3287.9	3293.7	3299.5	3311.1	3316.8	3322.6	3334.2	
(cm ⁻¹) n k (v(cm ⁻¹	*	0000	0.00	96	0.00	0.000	0.00	000	0.000	0.000	0.00			0000	0.001	0.002	0.003	0.00	0.005	000	0.011	0.013	0.016	0.020	0.024	0.023	0.019	0.017	0.017	0.016	0.017	0.017	0.010	0.021	0.023	0.025	0.029	0.031	0.034	0.037	0.043	0.046	0.048	0.050	0.055	0.059	0.063	0.069	
(cmr. ¹) n k v (cmr. ¹) n k	r	1.446	1.450	1.452	1.456	1.458	1.461	1.465	1.468	1.470	1.473	1.470	1.470	1.484	1.487	1.490	1.493	1.496	1.500	1.507	1.510	1.514	1.516	1.518	1.515	1.512	1.514	1.523	1.527	1.532	1.535	1.540	1.551	1.556	1.562	1.56/	1.574	1.580	1.585	1.592	1.604	1.609	1.614	1.616	1.633	1.64	26. 26. 28. 28. 28. 28. 28.	1.666	
Charge 1, 14, 18, 18, 14, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	v (cm ⁻¹)	2668.7	2680.3	2601.0	2697.6	2703.4	2709.2	2720.8	2726.6	2732.4	2738.2	2745.9	2755 5	2761.3	2767.1	2772.9	2778.7	2784.4	2790.2	2801.8	2807.6	2813.4	2819.2	2825.0	2830.7	2836.5	2842.3	2853.9	2859.7	2865.5	2871.2	2877.0	2888.6	2894.4	2900.2	2906.0	2917.5	2923.3	2929.1	2934.9	2946.5	2952.3	2958.1	2963.8	2975.4	2981.2	2987.0	2998.6	
(cm. ¹) n k v (cm. ¹	×	0.012	0.010	0.010	0.00	0.008	0.007	0.00	0.005	0.005	0.005	90.0	200	900	0.0	0.003	0.003	0.002	0.002	0.007	0.001	0.001	0.001	0.001	0.000	0.000	300	0.00	0.001	0.002	0.002	0.002	0.00	0.002	0.002	0.002	000	0.000	0.000	0.000	0000	0.000	0.000	000	0.00	0.000	0.00	0.00	0.00
(cm. ¹) n k v (cm. ¹	u	1.380	1.382	1.381	1.383	1.384	1.385	1.387	1.388	1.388	1.389	1.390	1 392	1.393	1.394	1.395	1.396	1.397	1.398	1 400	1.402	1.403	1.404	1.405	1.407	1.408	204.1	1.412	1.413	1.414	1.415	1.416	1.410	1.418	1.419	1.420	1.423	1.424	1.425	1.427	1.429	1.431	1.432	1.433	1.436	1.438	4. 5. 4. 5. 1.	1.43	£.1
Com ⁻¹ n	v (cm ⁻¹)	2327.3	2338.9	2344.6	2356.2	2362.0	2367.8	2379.4	2385.2	2390.9	2396.7	2402.5	2406.3	2419.9	2425.7	2431.4	2437.2	2443.0	2448.8	2460.4	2466.2	2472.0	2477.7	2483.5	2489.3	2495.1	2500.9	2512.5	2518.2	2524.0	2529.8	2535.6	2547.2	2553.0	2558.8	2504.5	2576.1	2581.9	2587.7	2593.5	2605.1	2610.8	2616.6	2622.4	2634.0	2639.8	2645.6	2657.1	6.2002
Cum ⁻¹ n	k	0.009	0.010	0.01	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.017	0.017	0.017	0.017	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.021	0.021	0.021	0.022	0.022	0.022	0.022	0.021	0.020	0.019	0.019	0.013	0.016	0.016	0.014	0.013
Name	u																																								1.378	1.377	1.378	1.378	1.379	1.379	137/	1.379	6/6:1
1494.5 1.34	v (cm ⁻¹)	2126.7	2130.5	2134.3	2136.3	2138.2	2140.2	2144.0	2146.0	2147.9	2149.8	2151.8	2155.6	2157.5	2159.5	2161.4	2163.3	2165.3	216/2	2171.0	2173.0	2174.9	2176.8	2178.8	2180.7	2182.6	2186.5	2188.4	2190.3	2192.3	2194.2	2196.1	2205.8	2211.5	2217.3	2223.1	2234.7	2240.5	2246.3	2252.1	2263.6	2269.4	2275.2	2281.0	2292.6	2298.4	2304.1	2315.7	C.1262
(cm. ¹) n k v (cm. ¹) 1506.7 1348 0.054 1836.4 1842.2 15150.5 1351 0.055 1847.9 11523.3 1350 0.055 1852.7 1847.9 11523.9 1351 0.055 1852.7 1847.9 11523.9 1351 0.055 1852.7 1871.1 11523.4 1346 0.055 1852.7 1871.1 1152.8 1346 0.057 1872.9 1348 0.058 1882.7 1872.9 1348 0.058 1882.7 1870.0 1348 0.059 1862.9 1862.9 1862.9 1345 0.058 1882.7 1870.0 1348 0.059 1962.0 1974 1159.0 1348 0.059 1962.0 1974 1159.0 1348 0.059 1962.0 1974 1159.0 1348 0.059 1962.0 1972.0 1368 0.059 1962.0 1972.0 1368 0.059 1962.0 1973.1 1062.8 1329 0.056 1982.0 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1962.0 1375 0.059 1962.0 1375 0.059 1962.0 1375 0.059 1962.0 1375 0.059 1962.0 1375 0.059 1962.0 1375 0.059 1962.0 1375 0.059 1962.0 1375 0.059 1375 0.	k	0.008	0.007	36	0.00	0.005	0.005	0.005	0.004	0.003	0.003	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	9.00	0.0	0.005	0.005	0.00	0.00	0.006	0.007	0.00	0.08	0.008	0.00	0.008	0.003
(cm. ¹) n k y 1494.9 1,484.9 1,	u	1.335	1.337	1.338	1.340	1.341	1.342	1.34	1.345	1.345	1.347	340	1.350	1.351	1.352	1.353	1.354	1.355	1.356	1.358	1.359	1.360	1.361	1.362	1.363	1.363	1 365	1.367	1.367	1.368	1.370	1.3/0	1.372	1.373	1.374	275	1.377	1.378	1.379	1.380	1.381	1.381	1.381	1.381	1.382	1.382	1.383	1.383	1.363
(cm. ¹) n 1494.9 1506.7 1348 1510.7 1348 1512.3 1350 1513.1 1350 1523.9 1351 1523.9 1351 1524.9 1344 1525.1 1344 1525.1 1336 1668.2 1337 1668.2 1337 1668.2 1315 1668.3 1315 1668.3 1315 1668.3 1315 1668.4 1315 1720.6 1315 1720.6 1315 1720.7 1320 1720.7 1320	v (cm ⁻¹)	1836.4	1847.9	1633.7	1865.3	1871.1	1876.9	1888.4	1894.2	1900.0	8.5061	1911.6	1923.2	1929.0	1934.7	1940.5	1946.3	1952.1	1963.7	1969.5	1975.3	1981.0	1986.8	1992.6	1998.4	2004.2	2010.0	2021.5	2027.3	2033.1	2038.9	2044.7	2056.3	2062.1	2067.8	2073.6	2085.2	2091.0	2096.8	2101.6	2105.5	2107.4	2109.3	2111.2	2115.1	2117.0	2119.0	2122.8	7174.1
(Cm ⁻¹) 1500.7 1500.7 1500.7 1512.3 1720.6 1720.6 1720.6 1720.6 1720.6 1720.7	k	0.054	0.057	0.033	0.056	0.057	0.057	0.058	0.058	0.063	850.0	0.00	0.000	0.059	0.059	0.059	0.059	0.039	0.000	0.059	0.058	0.056	0.056	0.056	0.055	0.055	0.033	0.049	0.048	0.044	0.042	0.040	0.035	0.032	0.030	0.028	0.025	0.023	0.021	0.020	0.019	0.016	0.015	0.014	0.012	0.011	0.011	0.010	0.010
v (cm-1) 1900.7 1500.7 1700.7 1700.1	li	1.348	1.351	1.330	1.351	1.351	1.346	1.343	1.346	1.34	1.345	1.34	338	1.338	1.336	1.337	1.336	1.338	1.33/	1.329	1.329	1.329	1.329	1.327	1.325	1.323	1318	1.316	1.315	1.315	1.315	1315	1.313	1.312	1.315	1.316	1.318	1.319	1.318	1.320	1.323	1.324	1.326	1.32/	1.328	1.329	1.330	1.333	1.554
	v (cm ⁻¹)	1494.9	1506.5	1512.3	1523.9	1529.7	1535.4	1547.0	1552.8	1558.6	4.4021	1576.0	1581.7	1587.5	1593.3	1599.1	1604.9	1610.7	1622 3	1628.0	1633.8	1639.6	1645.4	1651.2	1657.0	1662.8	1674.3	1680.1	1685.9	1691.7	1697.5	1709.3	1714.8	1720.6	1726.4	1738.0	1743.8	1749.6	1755.3	1766.9	1772.7	1778.5	1784.3	1705.0	1801.6	1807.4	1813.2	1824.8	1850.0

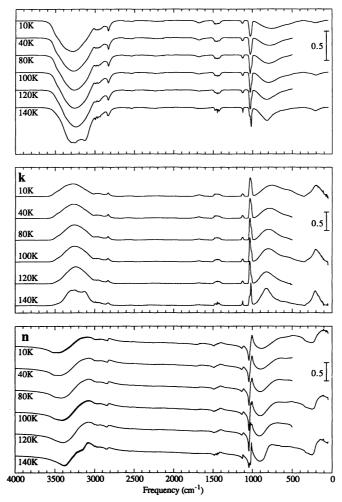


FIG. 3.—The 4000 to 50 cm $^{-1}$ transmission spectra and optical constants (n and k) of a H₂O:CH₃OH:CO:NH₃ = 100:50:1:1 ice mixture at temperatures of 10, 40, 80, 100, 120, and 140 K. The original ice was deposited at 10 K.

_	00	22	22	22	288	38	8	9 9	2 8	2	2	22	28	2	22	2 2	2 2	8	22	2 8	8	22	2	= 5	2 2	33	ر د ک	 2	2	2 4	: 22	9	o	2 00	55	2 2	3.4		4	. 7 ;	2 52	33
	0.000	0.00	0000	0.000	900	0.0	0.0	0.0	000	0.00	0.00		0.00	0.0	0.0	3 6	0.0	0.0	000	0.0	0.00	900	0.0	0.0	000	0.00		0.00	0.01	0.0	0.03	9.0	90.0	0.05	0.05	0.05	0.00	0.061	9 9	0.05	0.065	0.03
c	1.257	1.260	1.262	1.264	1.266	1.273	1.275	1.278	1.282	1.284	1.286	1.288	1.293	1.295	1.297	1 300	1.302	1.303	1.305	1.309	1.311	1.313	1.317	1.320	1.325	1.328	1.331	1.339	1.343	1.348	1.350	1.349	23.4	1.330	1.323	1.324	1.315	1.307	1.295	1.296	1.288	1.264
v (cm ⁻¹)	1183.4	1187.3 1189.2	1191.1	1195.0	1198.8	1203.6	1217.2	1223.0	1234.5	1240.3	1246.1	1251.9	1263.5	1269.3	1275.0	1286.6	1292.4	1298.2	1304.0	1315.5	1321.3	1327.1	1338.7	1344.5	1356.1	1361.8	1367.6	1379.2	1385.0	1390.8	1402.3	1408.1	1413.9	1425.5	1431.3	1437.1	1448.6	1454.4	1466.0	1471.8	1477.6	1489.2
	0.000	0.00	0000	0.00	888	300	0.000	900	0000	0.001	0.005	0.00	0.018	0.025	0.032	200	0.054	0.060	0.066	0.069	0.068	0.06	0.057	0.049	0.032	0.025	0.018	0.00	0.00	00.00	0.00	0.000	0.002	0.08	0.004	0.00	0.00	0.00	00.00	0.00	000	0,000
_ u	1.143	1.159	1.174 1.180	1.186	1.198	1.209	1.214	1.219	1.229	1.235	1.241	1.246	1.257	1.261	1.262	1 262	1.257	1.250	1.249	1.229	1.223	1.220	1.204	1.203	1.196	1.198	1.202	1.210	1.216	1.220	1.230	1.233	1.236	1.239	1.239	1.240	1.243	1.244	1.248	1.251	1,252	1.255
v (cm ⁻¹)	1069.6	1073.5	1077.3	1081.2	1085.0	1088.9	1090.8	1092.8	1096.6	1098.5	1100.5	1104.3	1106.3	1108.2	1110.1	11140	1115.9	1117.8	1119.8	1123.6	1125.5	1127.5	1131.3	1133.3	1137.1	1139.0	1141.0	1144.8	1146.8	1148.7	1152.6	1154.5	1156.4	1160.3	1162.2	1164.1	1168.0	1169.9	1173.8	1175.7	1177.6	1181.5
k	0.041	0.037	0.033	0.030	0.026	0.025	0.023	0.023	0.022	0.022	0.023	0.026	0.036	0.046	0.062	0.00	0.151	0.195	0.237	0.322	0.358	0.380	0.429	0.441	0.484	0.504	0.503	0.508	0.483	0.45/	0.379	0.315	0.253	0.127	0.078	46.0	0.00	0.000	0000	0.000	0000	0.000
g.	1.268	1.278 1.283	1.288 1.293	1.299	1.312	1.328	1.336	1.345	1.365	1.377	1.390	1.405	1.442	1.463	1.486	1.534	1.542	1.544	1.559	1.518	1.481	1.481	1.394	1.398	1.312	1.254	1.245	1.105	1.088	0.036	0.915	0.910	0.882	0.899	0.921	0.950	1.015	1.04	1.082	1.098	1.111	1.133
v (cm ⁻¹)	955.8 957.7	959.7 961.6	963.5 965.4	967.4	971.2	975.1	977.0	978.9	982.8	984.7	986.7	988.6	992.5	994.4	996.3	1000 2	1002.1	1004.0	1006.0	1009.8	1011.7	1015.6	1017.5	1019.5	1023.3	1025.2	1027.2	1031.0	1033.0	1034.9	1038.7	1040.7	1042.6	1046.5	1048.4	1050.3	1054.2	1056.1	1060.0	1061.9	1063.8	1067.7
k	0.294	0.299	0.300	0.299	0.299	0.291	0.289	0.283	0.275	0.269	0.263	0.257	0.241	0.235	0.225	0.208	0.197	0.187	0.176	0.156	0.146	0.134	0.122	0.118	0.111	0.108	20.0	0.097	0.095	0.09	0.084	0.082	0.078	0.072	0.00	0.066	0.00	0.058	0.052	0.050	0.046	0.043
u	1.403	1.382	1.365 1.352	1.345	1.324	1.307	1.295	1.286	1.269	1.260	1.254	1 2 3 7	1.232	1.226	1.217	1200	1.205	1.201	1.199	1.197	1.198	1.19/	1.200	1.200	1.203	1.204	1.205	1.209	1.211	1.213	1.216	1.218	1.220	1.226	1.229	1.232	1.238	1.240	1.248	1.251	1.260	1.264
v (cm ⁻¹)	723.4	734.9	746.5 752.3	758.1	769.7	781.2	787.0	792.8	804.4	810.2	816.0	821.7	833.3	839.1	844.9 650.7	856.5	862.2	868.0	8/3.8	885.4	891.2	907.0	903.7	905.6	909.5	911.4	915.4	917.2	919.2	921.1	924.9	926.9	928.8	932.7	934.6	936.5	940.4	942.3	946.2	948.1	950.0 951.9	953.9
k	0.028	0.031	0.038	0.049	0.058	0.069	0.075	0.080	0.080	0.098	0.106	0.112	0.128	0.135	0.141	0.148	0.158	0.162	0.166	0.109		0.177	0.182	0.183	0.180	0.192	0.196	0.203	0.207	0.211	0.210	0.224	0.228	0.239	0.246	0.250	0.255	0.266	0.273	0.281	0.283	0.292
L L	1.504	1.508	1.514	1.522	1.529	1.532	1.537	1.540	1.24.7	1.547	1.546	1.547	1.545	1.543	1.542	1.538	1.532	1.527	1.523	1.516	1.513	1.512	1.506	1.505	1.503	1.501	1.500	1.496	1.496	1.492	1.489	1.485	1.483	1.478	1.473	1.470	1.400	1.453	1.448 1.448 1.439	1.431	1.426	1,408
v (cm ⁻¹)	392.5	396.4	405.1 410.9	416.7	428.2	434.0 439.8	445.6	451.4	45/.2	468.7	474.5	480.3	490.1	497.7	503.5	206.5	520.8	526.6	532.4	544.0	549.8	555.5	567.1	572.9	584.5	590.3	596.1	607.6	613.4	619.2	630.8	636.6	642.3	653.9	659.7	665.5	677.1	685.9	688.6 694.4	700.2	706.0	717.6
k	0.098	0.093	0.089	0.089	0.080	0.072	0.067	0.062	0.061	0.058	0.054	0.053	0.030	0.046	0.041	0.038	0.031	0.028	0.025	0.024	0.019	0.015	0.011	0.00	0.00	0.003	0.00	00.0	0.000	0.002	86	0.005	0.007	0.00	0.011	0.012	0.015	0.016	0.018	0.021	0.021	0.026
a a	1.360	1.363	1.367	1.371	1.370	1.370	1.373	1.375	1.377	1.380	1.381	1.383	1.386	1.387	1.388	1.390	1.395	1.396	1.399	4.4	1.407	1.409	1.416	1.421	1.425	1.434	1.438	1.447	1.452	1,456	3 4	1.467	1.471	1.477	1.480	1.483	1.487	1.490	1.491	1.497	1.499	1.502
v (cm ⁻¹)	278.7	282.6 284.5	286.5 288.4	290.3	294.2	296.1 298.0	300.0	301.9	305.7	307.7	309.6	311.5	315.4	317.3	319.2	321.2	325.0	327.0	328.9	332.7	334.7	336.6	340.5	342.4	344.3	348.2	350.1	354.0	355.9	357.8	361.7	363.6	365.5	369.4	371.3	373.3	377.1	379.0	381.0	384.8	386.8 388.7	390.6
 - -	0.243	0.257	0.266	0.271	0.256	0.280	0.279	0.286	0.286	0.289	0.295	0.295	0.302	0.303	0.300	0.296	0.288	0.284	0.278	0.269	0.261	0.261	0.247	0.239	0.235	0.220	0.214	0.199	0.192	0.186	0.175	0.169	0.162	0.155	0.151	0.145	0.138	0.126	0.125	0.114	0.110	0.10
_ c	1.613	1.600	1.594	1.587	1.581	1.574	1.558	1.548	1.540	1.522	1.517	1.507	1.488	1.478	1.466	097.1	4.1	1.434	1.425	1.410	1.404	1.394	1.384	1.378	1.3/6	1.370	1.366	1.359	1.358	1.355	1.353	1.353	1.353	1.353	1.352	1.350	1.351	1.356	1.356	1.357	1.357	1.360
v (cm ⁻¹)	164.9	168.8	172.6 174.6	176.5	180.4	182.3	186.1	188.1	190.0	193.9	195.8	197.7	201.6	203.5	205.4	4.00	211.2	213.2	215.1	218.9	220.9	222.8	226.7	228.6	230.5	234.4	236.3	240.2	242.1	244.0	247.9	249.8	251.7	255.6	257.5	259.4	263.3	265.2	267.2	271.0	273.0 274.9	276.8
×	0.000	0000	0.007	0.006	0.000	0.055	0.031	0.024	0.033	0.00	0.033	20.0	0.046	0.049	0.052	0.052	0.056	0.058	0.070	0.00	0.095	0.094	0.112	0.126	0.134	0.146	0.146	0.133	0.162	0.152	0.159	0.174	0.177	0.200	0.199	0.209	0.228	0.224	0.228	0.219	0.226	0.235
_					6 29.																1.697			689		.685															1.632	
=	1.62	9.1	9.1	3.	==:		=	= :	===	: =	∹,	-i -		_				_											_			-						_	-i	_		

- X	٤	900	88	8	0000	900	0000	0.000	000.0	000.0	000.0	0000	0.000	0000	0.000	0000	000	000	0000	800		38	3 8	3 8	0000	000	00.0	0000	0.000	000	0000		38	38			38	0000			38		38		0000	0000	0000	0000	0000	0.000	0.000	000.0	0000	0000	0000	986]
	1				S I		_			_	_	_	_												_		_			_																			_	-	_	_	Ξ.	Ī.,					
=	1 200	1.20	1.211	1.213	1.21	1.21/	1.220	1.222	1.22	1.22	1.22	1.22	1.22	1.23	1.232	1.23	1.23	1.23	1 23	1 23	3 6	22.1	1.237	7 .	1.242	1.243	1.243	1.244	1.245	1.246	1 247	1 2 4 8	1 240	1 240	1 250	1 250	1 251	1 252	1 25	1 253	1 254	1 255	1 255	1 256	1 257	1.257	1.258	1.258	1.259	1.259	1.260	1.260	1.261	1.261	1.262	797	3		
v (cm ⁻¹)	38786	3681.4	3687.2	3693.0	3698.8	37103	3716.1	3721.9	3727.7	3733.5	3739.3	3745.1	3750.9	3756.6	3762.4	3768.2	3774.0	3779.8	37856	3701.4	2707.	3800 0	2806.7	2000.7	3814.5	3820.3	3826.1	3831.9	3837.7	3843.4	3840 2	3855.0	3060	3866.6	3872.4	3979.7	3884 0	3880 7	3805.5	30013	3907 1	3012 0	3018.7	3024 5	3930.2	3936.0	3941.8	3947.6	3953.4	3959.2	3965.0	3970.8	3976.5	3982.3	3988.1	3993.9			
يد ا	0 215	0.311	0.306	0.301	0.296	0.290	0.278	0.271	0.263	0.255	0.245	0.236	0.227	0.218	0.209	0.199	0.190	0.180	0.171	163	0.100	277	140	13.0	0.133	0.125	0.118	0.109	0.101	0.092	0.083	0.000	200	0.00	2000	0.02	0.030	9000	0.02	8100	0.013	0.01	0.00	0.00	900	900	0.003	0.002	0.001	0.000	0.00	0.000	0.000	0.000	000	36	0.000		
g G	٦	1.206	1.198	1.166	1.158	1.149	1.145	1.148	1.140	1.133	1.107	1.102	1.107	1.102	1.098	1.103	1.100	1.084	1 084	1 083	0001	1.009	1.007	1.001	1.093	1.092	1.082	1.082	1.081	1.086	1 086	1001	1.001	1 00%	1.000	1105	1.15	1.10	1 125	133	1 138	1 142	1 149	1.153	1.158	1.163	1.167	1.172	1.175	1.179	1.183	1.186	1.189	1.193	1.195	1.198	1.204		
v (cm ⁻¹)	33400	3345.8	3351.6	3357.3	3363.1	33747	3380.5	3386.3	3392.1	3397.9	3403.6	3409.4	3415.2	3421.0	3426.8	3432.6	3438.4	3444	3449 9	34557	2461.5	34673	2472	2470.1	34 /8.9	3484.7	3490.4	3496.2	3502.0	3507.8	3513.6	3510.4	35353	35310	25367	2542.5	35483	3554 1	35500	35657	3571 5	3577.2	3583.0	35888	3594 6	3600.4	3606.2	3612.0	3617.8	3623.5	3629.3	3635.1	3640.9	3646.7	3652.5	3664	3669.8		
يد	0 060	0.06	0.066	0.069	0.073	0.0/9	0.091	0.099	0.106	0.114	0.121	0.129	0.136	0.14	0.152	0.160	0.168	0.175	0 183	0 180	0.10	0.170	0.20	217.0	0.220	0.227	0.235	0.242	0.249	0.256	264	0.273	0.00	0.28	0.707	0.20	306	0.312	0.319	0.324	0320	0 333	0.337	0.330	0.341	0.343	0.346	0.346	0.345	0.343	0.342	0.339	0.337	0.335	0.332	0.329	0.320		
	ľ	1.49	1.458	1.468	1.475	1.485	1.495	1.491	1.494	1.496	1.502	1.504	1.510	1.511	1.499	1.498	1.497	1.502	1 501	1 507	1.505	1.503	1.70	ţ.;	1.481	1.477	1.483	1.479	1.485	1.480	1 476	1 440	1 442	1 435	1 430	1.43	1 436	1 428	1 304	1 384	1 375	1 377	1 367	1 371	1 359	1.348	1.310	1.298	1.286	1.290	1.279	1.282	1.271	1.261	1.226	1.216	1.211		
v (cm ⁻¹)	3004 3	3010.1	3015.9	3021.7	3027.5	3033.3	3044.9	3050.6	3056.4	3062.2	3068.0	3073.8	3079.6	3085.4	3091.1	3096.9	3102.7	3108.5	31143	3120.1	2125.0	2121.7	2127.4	1177.1	3143.2	3149.0	3154.8	3160.6	3166.4	3172.2	3178.0	31837	2180 5	31053	3201 1	3206.0	32127	3218 5	3224.2	3230.0	3235.8	32416	3247.4	3253.2	3259.0	3264.8	3270.5	3276.3	3282.1	3287.9	3293.7	3299.5	3305.3	3311.1	3316.8	3322.0	3334.2		
k	000	000	0.000	0.00	0.001	38	0.002	0.002	0.003	0.003	0.003	0.00	0.005	900.0	0.007	0.00	0.011	0.013	0.016	000	20.0	0.024	0.030	0.00	44.0	0.053	0.067	0.087	0.098	0.082	90	0.057	0.00	0.053	0.05	0.050	0.02	0 040	0.050	0.050	0.056	0000	2000	0.00	000	0.074	0.077	0.075	0.073	0.076	0.081	0.082	0.080	0.077	0.079	0.080	0.073		
u (-	1.399	1.400	1.403	45.	1.400	1.410	1.413	1.415	1.417	1.420	1.423	1.425	1.428	1.431	1.435	1.439	1.443	1 447	1 440	1 753	1.457	1461	104.1	\$ 5	1.469	1.469	1.462	1.429	1.408	1 408	1415	1 410	1 423	1 425	1 424	1 427	1 431	1 437	1 441	1 446	1 447	1 447	1 443	444	1.44	1.443	1.440	1.445	1.448	1.447	1.437	1.435	1.440	1.442	1.441	1.443		
v (cm ⁻¹)	7 8990	2674.5	2680.3	2686.1	2691.9	2097.0	2709.2	2715.0	2720.8	2726.6	2732.4	2738.2	2743.9	2749.7	2755.5	2761.3	2767.1	2772.9	7,877	2784 4	2700.2	2706.0	2801.8	2001.0	2807.0	2813.4	2819.2	2825.0	2830.7	2836.5	2842.3	2848 1	2853.0	28597	7865.5	2871.2	2877.0	2882.8	2888.6	2894 4	29002	29060	2011.8	2017 5	2923.3	2929.1	2934.9	2940.7	2946.5	2952.3	2958.1	2963.8	2969.6	2975.4	2981.2	2987.0	2998.6		
<u>×</u>	8	900	0.003	0.003	0.003	0.003	0.003	0.002	0.001	0.001	0.000	0.00	0.001	0.001	0.001	0.001	0.001	000	000	0.00	00.0	0.00	0.00	0.00	0.001	0.001	0.001	0.001	0.002	0.002	0000	0000	9000	0.000	0000	0000	0.00	000	0000	0000	0000	0000	0.00	2000	0000	0.007	0.007	0.007	0.007	0.007	9000	0.005	20.0	0.003	0.003	0.0	0.00	0.000	l
c	1 257	1.357	1.357	1.357	1.358	1.359	1.359	1.360	1.361	1.362	1.362	1.363	1.364	1.365	1.366	1.366	1.367	1 367	1 368	1 360	1 270	1.370	1.270	1.2.1	1.3/2	1.373	1.374	1.375	1.376	1.378	1 379	1 380	1 201	1 380	1 380	1 280	1.380	1 379	1 379	1 370	1 379	1 370	1 380	1 381	1 382	1.383	1384	1.384	1.384	1.384	1.384	1.385	1.385	1.386	1.388	30.5	1.393	1.395	
v (cm ⁻¹)	22772	2333.1	2338.9	2344.6	2350.4	2356.2	2367.8	2373.6	2379.4	2385.2	2390.9	2396.7	2402.5	2408.3	2414.1	2419.9	2425.7	24314	2437.2	2443.0	0.0770	24546	0.467	4,00.4	2400.2	2472.0	2477.7	2483.5	2489.3	2495.1	25009	2506.7	2512 5	25182	2524.0	2520.8	2535.6	25414	2547.2	2553.0	2555.	2564 5	25703	2576.1	2581 9	2587.7	2593.5	2599.3	2605.1	2610.8	2616.6	2622.4	2628.2	2634.0	2639.8	2645.6	2657.1	2662.9	
×	2000	0.00	0.007	0.00	0.011	0.011	0.00	0.007	0.007	9000	0.006	9.000	0.007	0.00	0.007	0.007	0.00	0.007	0.00	0.00	2000	0.00	38	900	0.008	0.008	0.008	0.008	0.008	0.008	000	0000	0000	000	300	0000	0000	0.00	0.00	0000	0000	000	0.00	0.010	0.010	0.00	0.008	0.008	0.007	900.0	9000	0.005	0.005	0.00	95	9 5	0.0	0.004	l
c c	1 255	1.355	1.356	1.356	1.354	1.352	1.350	1.349	1.350	1.351	1.351	1.352	1.352	1.352	1.352	1.352	1.353	1353	1 352	1 353	1 252	1 252	1 252	1,25	1.333	1.353	1.352	1.353	1.353	1.353	1 352	1 353	1 252	1 352	1 353	1 357	1352	1 352	1 353	1352	1 353	1 352	1 353	1 352	1 352	1.352	1.351	1.351	1.351	1.351	1.352	1.352	1.353	1.353	1.354	1.554	1.356	1.356	
v (cm ⁻¹)	21267	2128.6	2130.5	2132.5	2134.4	2136.3	2140.2	2142.1	2144.0	2146.0	2147.9	2149.8	2151.8	2153.7	2155.6	2157.5	2159.5	21614	2163 3	2165 3	2167.7	2160.2	21710	2171.0	21/3.0	21/4.9	2176.8	2178.8	2180.7	2182.6	2184 5	2186 5	2188.7	2190.3	2100.3	2104.2	21961	2198.0	2205.8	2211 5	22173	2223 1	222	22347	2240 5	2246.3	2252.1	2257.8	2263.6	2269.4	2275.2	2281.0	2286.8	2292.6	2298.4	2304.1	2315.7	2321.5	
×	5	000	0.00	0.001	0.001	0.00	100	0.00	0.001	0.001	0.00	0.00	0.00	0.00	0.001	0.001	0.001	000	100	100	1000	3 5	200	0.0	0.001	0.001	0.00	0.001	0.00	0.002	000	2000	2000	0000	0.00	0.00	0000	000	0000	0000	0.00	100	3 5	100	0000	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	90.0	25.5	0.0	0.004	1
c	1 227	1.328	1.329	1.329	1.330	1.330	1.331	1.332	1.332	1.333	1.333	1.334	1.334	1.335	1.335	1.336	1.336	1 337	1 337	1 337	1 220	1 330	1 220	1,237	1.340	1.340	1.340	1.341	1.342	1.342	1 342	1 342	1 2/2	1 343	1 344	1 244	1344	1 344	1 345	1 345	1 346	1 347	1 347	1 348	1 349	1.350	1.350	1.350	1.351	1.351	1.352	1.352	1.352	1.352	1.353	1.333	1.354	1.354	
v (cm ⁻¹)	1926.1	1842.2	1847.9	1853.7	1859.5	1865.3	1876.9	1882.7	1888.4	1894.2	1900.0	1905.8	1911.6	1917.4	1923.2	1929.0	1934.7	1940.5	1946 3	1052 1	1057.0	1063 7	1060.5	2,707.1	1973.3	1981.0	1986.8	1992.6	1998.4	2004.2	20100	2015.8	202.5	2027.3	2027.3	2033.1	2036.7	2050 5	20505	2020.3	2007.8	2073.6	20702	2085.2	2001.0	2096.8	2101.6	2103.5	2105.5	2107.4	2109.3	2111.2	2113.2	2115.1	2117.0	0.4117	2122.8	2124.7	
~	0.017	0.007	0.005	0.001	0.000	000	000	0.001	0.002	0.003	0.00	0.09	0.005	0.006	0.006	900.0	0.007	0.00	800	0.000	20.0	2100	7100	0.00	0.020	0.023	0.026	0.029	0.033	0.036	0.038	0.00	0.00	0.037	0.03	0000	2000	1000	0.017	0.014	1100	000	200	000	900	0.003	0.002	0.001	0.001	0.000	0.000	0.000	0000	0.000	000	36	0.00	0.001	
u u	1	1.274																																										1300				1.316									1.326		
v (cm ⁻¹)	1707.0	1500.7	1506.5	1512.3	1518.1	1523.9	1535.4	1541.2	1547.0	1552.8	1558.6	1564.4	1570.2	1576.0	1581.7	1587.5	1593.3	1599.1	1604 9	16107	1616.5	1622.3	1628.0	1620.0	1033.8	1639.6	1645.4	1651.2	1657.0	1662.8	1668 5	1674 3	1680 1	1685 0	1601 7	1,607.5	1703.3	1709 1	1714.8	1720 6	1726.4	1732 2	1738.0	1743.8	1749.6	1755.3	1761.1	1766.9	1772.7	1778.5	1784.3	1790.1	1795.9	1801.6	1807.4	1819.0	1824.8	1830.6	

TABLE 3B $H_2O:CH_3OH:CO:NH_3 = 100:50:1:1 \text{ at } 40 \text{ K}$

1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	-11-	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	د	0.000 0.0000 0.000
Value Valu	-	13.83 13.83
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	v (cm ⁻¹)	2168.6 2176.8 2176.8 2176.8 2176.8 2176.8 2176.8 2176.8 2176.9 2176.8 21
(1974) 1 k (cm ²)		0.0000000000000000000000000000000000000
Charge 1, 10	=	13.50 13.50
Charge 1, 10, 10, 10, 10, 10, 10, 10, 10, 10,		
Charge 1		0.0000 0.
Charge 1, 15, 15, 15, 15, 15, 15, 15, 15, 15,	ļ -	1347 1347 1347 1347 1333 1333 1333 1333
Charge 1		
Charge C	ىد	0.000000000000000000000000000000000000
Comp. No. No	-	13132 1327 1328 1338 1338 1338 1338 1338 1338 1338
Cem-1 n	v (cm ⁻¹)	1286.1 1286.1 1286.1 1297.1 1297.1 1309.3 1315.5 13
(cm. ¹) n k v (cm. ¹	<u>×</u>	0.0023 0.
Camp. National Process Camp. National Pr	 -	128 8 8 1 1 2 2 4 1 1 2 2 8 8 1 1 2 2 4 1 1 2 2 8 8 1 1 2 2 8 8 1 1 2 2 4 1 1 2 2 8 8 1 1 2 2 8 8 1 1 2 2 8 8 1 1 2 2 8 8 1 1 2 2 2 1 1 2 2 8 8 1 1 2 2 2 1 1 2 2 8 8 1 1 2 2 2 8 1 2 2 8 8 1 1 2 8 8 1 1 2 8 1 1
Cm-1 n		
Cem-1 n	<u>×</u>	0.000 0.000
Cem-1, n k v (cm-1) n k v n n n v n n n n n	 	1539 1539 1539 1539 1539 1539 1539 1539
(cm-1) n k v (cm-1) n 504.9 1.536 0.035 846.3 1.269 516.5 1.536 0.040 852.1 1.265 528.1 1.534 0.040 852.1 1.249 528.2 1.534 0.049 863.7 1.249 539.6 1.532 0.056 881.1 1.235 551.2 1.531 0.067 886.8 1.234 551.2 1.531 0.067 886.8 1.235 552.8 1.532 0.065 881.1 1.235 551.2 1.531 0.071 886.8 1.235 552.8 1.532 0.067 886.8 1.235 552.8 1.529 0.075 888.4 1.235 580.1 1.528 0.089 901.2 1.235 581.2 1.529 0.075 888.4 1.235 582.2 1.529 0.075 888.4 1.235 580.1 <t< td=""><th></th><td></td></t<>		
(cm-1) n k v (cm-1) 504.9 1.336 0.033 846.3 510.7 1.536 0.040 821.3 510.7 1.536 0.040 821.3 522.3 1.534 0.049 8821.1 532.8 1.535 0.047 857.9 533.8 1.534 0.049 883.1 545.4 1.531 0.067 886.8 551.2 1.532 0.065 881.1 552.8 1.531 0.067 886.8 557.0 1.529 0.075 886.8 557.1 1.529 0.075 886.8 557.2 1.529 0.075 886.8 585.9 1.529 0.089 907.1 586.1 1.529 0.099 907.2 587.1 1.529 0.099 907.2 587.2 1.529 0.099 907.1 588.9 1.529 0.099 907.1 588.9 1.529	K	0.023 0.023 0.035 0.037
(cm-1) n k v 504.9 1.536 0.035 510.7 1.536 0.040 522.3 1.535 0.040 532.8 1.535 0.040 533.8 1.534 0.056 534.4 1.531 0.051 557.0 1.539 0.051 558.6 1.539 0.051 558.6 1.539 0.007 558.6 1.539 0.007 558.6 1.539 0.007 558.7 1.539 0.007 558.7 1.539 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.530 0.007 558.9 1.334 0.007 558.9 1.344 0.007 558.9 1.344 0.007 558.9 1.344 0.007 558.9 1.344 0.007 558.9 1.344 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.345 0.007 559.9 1.340 0.007 559.9 1.340 0.007 559.0 1.340 0.007 559.0 1.340 0.007	ll l	
(cm-1) n 504.9 1536 533.8 1533 532.3 1534 532.3 1534 532.3 1534 532.6 1532 552.8 1537 552.8 1537 552.9 1539 600.1 1539 600.1 1539 600.1 1539 600.1 1539 600.1 1539 600.1 1530 600.1 1530 60		
(cm-1) 250.4	×	
× (cm ⁻¹) 504.9 510.4 510.4 510.4 510.4 510.5 510		
	v (cm ⁻¹)	\$549. \$510.7 \$510.7 \$510.7 \$510.7 \$533.8 \$5310.7 \$5310

TABLE 3B—Continued

				IADI							
v (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k
2483.0	1.385	0.001	2867.9	1.439	0.057	3252.7	1.335	0.385	3637.5	1.187	0.000
2489.8	1.386	0.002	2874.6	1.443	0.055	3259.5	1.320	0.387	3644.3	1.191	0.000
2496.6	1.388	0.002	2881.4	1.448	0.054	3266.2	1.304	0.388	3651.0	1.194	0.000
2503.3	1.389	0.003	2888.1	1.453	0.055	3273.0	1.289	0.388	3657.8	1.197	0.000
2510.1	1.390	0.005	2894.9	1.458	0.058	3279.7	1.274	0.386	3664.5 3671.3	1.200	0.000
2516.8	1.391 1.391	0.007 0.008	2901.6 2908.4	1.461 1.462	0.062 0.067	3286.5 3293.2	1.259 1.244	0.384 0.381	3678.0	1.203 1.205	0.000
2523.6 2530.3	1.391	0.009	2915.1	1.463	0.069	3300.0	1.230	0.376	3684.8	1.203	0.000
2530.3	1.390	0.009	2921.9	1.466	0.009	3306.7	1.216	0.371	3691.5	1.210	0.000
2543.8	1.390	0.010	2928.6	1.467	0.072	3313.5	1.202	0.365	3698.3	1.213	0.000
2550.6	1.389	0.009	2935.4	1.463	0.083	3320.2	1.189	0.358	3705.0	1.215	0.000
2557.3	1.389	0.009	2942.1	1.461	0.080	3327.0	1.177	0.350	3711.8	1.217	0.000
2564.1	1.390	0.008	2948.9	1.466	0.081	3333.7	1.166	0.342	3718.5	1.219	0.000
2570.8	1.391	0.007	2955.6	1.467	0.087	3340.5	1.155	0.334	3725.3	1.221	0.000
2577.6	1.392	0.007	2962.4	1.463	0.091	3347.2	1.145	0.325	3732.0	1.222	0.000
2584.3	1.393	0.007	2969.1	1.460	0.088	3354.0	1.135	0.316	3738.8	1.224	0.000
2591.1	1.394	0.007	2975.9	1.464	0.084	3360.7	1.126	0.307	3745.5	1.225	0.000
2597.8	1.394	0.008	2982.6	1.468	0.087	3367.5	1.117	0.297	3752.3	1.227	0.000
2604.6	1.394	0.007	2989.4	1.467	0.090	3374.2	1.108	0.287	3759.1	1.228	0.000
2611.3	1.395	0.007	2996.1	1.466	0.086	3381.0	1.100	0.276	3765.8	1.230	0.000
2618.1	1.395	0.006	3002.9	1.470	0.080	3387.7	1.093	0.265	3772.6	1.231	0.000
2624.8	1.396	0.005	3009.7	1.480	0.078	3394.5	1.086	0.253	3779.3	1.233	0.000
2631.6	1.397	0.003	3016.4	1.491	0.080	3401.2	1.081	0.241	3786.1	1.234	0.000
2638.3	1.399	0.002	3023.2	1.501	0.086	3408.0	1.076	0.229	3792.8	1.235	0.000
2645.1	1.401	0.001	3029.9	1.509	0.094	3414.7	1.073	0.216	3799.6	1.236	0.000
2651.8	1.403	0.000	3036.7	1.516	0.102	3421.5	1.070	0.204	3806.3	1.238	0.000
2658.6	1.406	0.000	3043.4	1.522	0.112	3428.2	1.068	0.192	3813.1	1.239	0.000
2665.3	1.408	0.000	3050.2	1.527	0.122	3435.0	1.068	0.182	3819.8	1.240	0.000
2672.1	1.410	0.000	3056.9	1.530	0.133	3441.7	1.067	0.170	3826.6	1.241	0.000
2678.8	1.413	0.000	3063.7	1.532	0.144	3448.5	1.067	0.160	3833.3	1.242	0.000
2685.6	1.415	0.000	3070.4	1.534	0.155	3455.2	1.067	0.150	3840.1	1.243	0.000
2692.3	1.418	0.001	3077.2	1.534	0.166	3462.0	1.068	0.141	3846.8	1.244	0.000
2699.1	1.421	0.002	3083.9	1.534	0.178	3468.7	1.068	0.132	3853.6	1.245	0.000
2705.8	1.423	0.002	3090.7	1.532	0.189	3475.5	1.067	0.123	3860.3	1.246	0.000
2712.6	1.426	0.002	3097.4	1.530	0.200	3482.2	1.068	0.113	3867.1	1.247	0.000
2719.3	1.429	0.003	3104.2	1.527	0.211	3489.0	1.067	0.103	3873.8	1.247	0.000
2726.1	1.432	0.003	3110.9	1.523	0.221	3495.7	1.068	0.093	3880.6	1.248	0.000
2732.8	1.435	0.004	3117.7	1.519	0.231	3502.5	1.069	0.081	3887.3	1.249	0.000
2739.6	1.438	0.005	3124.4	1.515	0.241	3509.3	1.072	0.069	3894.1	1.250	0.000
2746.4	1.442	0.006	3131.2	1.510	0.250	3516.0	1.076	0.057	3900.8	1.251	0.000
2753.1	1.446	0.007	3137.9	1.505	0.260	3522.8	1.083	0.046	3907.6	1.252	0.000
2759.9	1.450	0.009	3144.7	1.500	0.269	3529.5	1.090	0.036	3914.3	1.253	0.000
2766.6	1.455	0.011	3151.4	1.494	0.279	3536.3	1.099	0.028	3921.1	1.253	0.000
2773.4	1.460	0.015	3158.2	1.488	0.288	3543.0	1.107	0.021	3927.8	1.254	0.000
2780.1	1.465	0.018	3164.9	1.481	0.297	3549.8	1.116	0.016	3934.6	1.255	0.000
2786.9	1.470	0.024	3171.7	1.473	0.307	3556.5	1.124	0.012	3941.3	1.255	0.000
2793.6	1.475	0.030	3178.4	1.465	0.315	3563.3	1.131	0.009	3948.1	1.256	0.000
2800.4	1.480	0.038	3185.2	1.457	0.324	3570.0	1.138	0.006	3954.8	1.257	0.000
2807.1	1.484	0.048	3191.9	1.447	0.332	3576.8	1.145	0.004	3961.6	1.258	0.000
2813.9	1.486	0.061	3198.7	1.437	0.340	3583.5	1.151	0.003	3968.3	1.258	0.000
2820.6	1.485	0.080	3205.4	1.426	0.348	3590.3	1.157	0.002	3975.1	1.258	0.000
2827.4	1.466	0.105	3212.2	1.415	0.356	3597.0	1.162	0.001	3981.8	1.259	0.000
2834.1	1.431	0.098	3218.9	1.403	0.363	3603.8	1.167	0.000	3988.6	1.259	0.000
2840.9	1.425	0.072	3225.7	1.390	0.369	3610.5	1.172	0.000	3995.3	1.260	0.000
2847.6	1.432	0.063	3232.4	1.377	0.374	3617.3	1.176	0.000	1		
2854.4	1.436	0.061	3239.2	1.364	0.379	3624.0	1.180	0.000	l		
2861.1	1.437	0.059	3245.9	1.349	0.383	3630.8	1.184	0.000			

TABLE 3C $H_2O:CH_3OH:CO:NH_3 = 100:50:1:1 \text{ at } 80 \text{ K}$

1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
March 1	X N N N N N N N N N	0.001 0.001 0.002 0.002 0.002 0.001 0.001
Keep Color	n 1 1366	1.377 1.378 1.379 1.380 1.381 1.382 1.383 1.383 1.383
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	v (cm-1) 2166.7 2166.7 2176.6 2172.5 2172.5 2172.5 2172.5 2172.5 2172.6 2172.6 2172.6 2172.6 2172.6 2172.7 2172.6 2172.7 2172.6 2172.7 2172.7 2172.7 2172.7 2172.7 2172.7 2172.7 2172.7 2273.8	2408.8 2415.5 2422.3 2429.0 2435.8 2442.5 2449.3 2462.8 2462.8 2462.8 2460.5
Column C	0.000000000000000000000000000000000000	0.006 0.006 0.006 0.007 0.007 0.007
Name	n 1350 1350 1350 1352 1353 1353 1353 1353 1353 1353 1353	1364 1364 1365 1365 1365 1366 1366 1366 1366
Name	v (cm-1) 1957.4 1963.2 1969.0 1974.8 1974.8 1980.6	2145.5 2147.4 2149.3 2151.3 2153.2 2155.1 2157.1 2160.9 2160.9
Comp. 180 Comp. 1	0.000000000000000000000000000000000000	0.0000000000000000000000000000000000000
Name	n 1337 1337 1337 1338 1338 1338 1338 1338	1345 1346 1346 1346 1347 1348 1348 1348 1348
Name		1893.8 1899.5 1905.3 1911.1 1916.9 1922.7 1928.5 1934.3 1940.0
Name	No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
National Process National Pr	n 1 1313 1313 1313 1313 1323 1332 1332 13	1325 1327 1328 1329 1331 1333 1334 1335 1335
Comp. December Comp. December Comp. December Comp. December Comp. December Comp. December Comp. December Comp. December Comp. December Comp. December Decemb	V (Cm ⁻¹) 1274.6 1274.6 1286.1 1274.6 1280.3 1286.3 1286.1 1309.3 1309.	1552.3 1558.1 1563.9 1569.7 1575.5 1581.3 1587.0 1592.8 1604.4
Name	K	000000000000000000000000000000000000000
Name	n 1.286 1.287 1.287 1.220 1.22	1.292 1.292 1.295 1.297 1.299 1.301 1.305 1.306 1.306 1.308
Name	-	1210.9 1216.7 1222.5 1228.3 1228.3 1234.0 1239.8 124.6 1251.4 1257.2 1257.2 1268.8
Cem-1) n k v (cm-1) n k v (cm-1) n k p (cm-1) n k p (cm-1) n k p (cm-1) n k 264.9 1.252 0.250 997.8 1.515 1.616 1.628 1.629 </th <th>K K K K K K K K K K K K K K K K K K K</th> <th>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000</th>	K K K K K K K K K K K K K K K K K K K	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
Com-1 n k v (cm-1) n k 504.9 1.512 0.008 846.3 1.273 0.261 510.7 1.519 0.010 852.1 1.252 0.241 520.2 1.524 0.022 887.9 1.252 0.218 523.3 1.528 0.029 887.9 1.252 0.218 533.8 1.528 0.029 886.5 1.238 0.201 551.2 1.528 0.029 886.5 1.212 0.103 551.2 1.528 0.049 886.8 1.211 0.103 552.2 1.528 0.049 886.8 1.213 0.13 552.2 1.528 0.049 886.8 1.213 0.13 552.2 1.528 0.049 886.2 1.213 0.13 552.2 1.528 0.049 886.2 1.213 0.13 552.2 1.528 0.049 886.2 1.213 0.13	n 1.5493 1.5493 1.5493 1.555 1	1227 1232 1233 1242 1247 1252 1263 1269 1269
(cm ⁻¹) n k v (cm ⁻¹) n 504.9 1.512 0.008 846.3 1.273 510.7 1.512 0.001 885.1 1.225 522.3 1.524 0.022 887.9 1.232 523.8 1.528 0.029 885.1 1.228 533.8 1.528 0.034 881.1 1.228 545.4 1.528 0.049 886.1 1.213 551.2 1.528 0.049 886.1 1.213 552.8 1.528 0.049 886.8 1.213 554.4 1.528 0.049 886.8 1.213 554.2 1.528 0.049 886.8 1.213 554.2 1.528 0.049 886.8 1.213 554.2 1.530 0.070 907.1 1.213 558.6 1.530 0.070 907.2 1.213 568.7 1.531 0.070 907.2 1.213 569.1	V (cm-1) 995.8 997.8 997.8 997.8 997.8 1001.5 1001.5 1007.4 1012.8 1012.8 1024.8 1024.8 1024.8 1024.8 1024.8 1026.7 1026.7 1026.7 1026.7 1026.7 1026.7 1026.8 1027.8	1088.4 1090.3 1092.3 1094.2 1096.1 1100.0 1101.9 1103.8 1105.8
Com-1 n k v (cm-1) 504.9 1.512 0.008 846.3 516.5 1.524 0.000 852.1 526.3 1.529 0.010 852.1 528.3 1.524 0.029 857.9 528.3 1.528 0.029 863.7 533.8 1.528 0.029 863.7 545.4 1.528 0.049 882.6 551.2 1.528 0.049 882.6 552.6 1.529 0.049 882.6 557.0 1.528 0.049 882.6 556.8 1.529 0.049 882.6 557.0 1.538 0.049 882.6 587.1 1.530 0.070 901.2 588.9 1.531 0.079 902.2 589.1 1.530 0.070 902.2 589.1 1.531 0.099 922.5 603.2 1.532 0.086 905.2 604.9 1.540 </th <th>k 100 10</th> <th>0.014 0.011 0.011 0.011 0.011 0.014 0.016</th>	k 100 10	0.014 0.011 0.011 0.011 0.011 0.014 0.016
(cm ⁻¹) n k v 504.9 1.512 0.008 516.5 516.5 516.5 516.5 1.512 0.002 516.5 1.524 0.002 528.1 1.528 0.003 528.2 1.528 0.003 528.2 1.528 0.004 528.2 0.023 528.2 0.023 528.2 0.023 528.2 0.024 528.2 0.024 528.2 0.024 528.2 0.024 528.2 0.024 528.2 0.024 528.2 0.024 528.2 0.024 528.2 0.026 528.2	n 1223 1223 1223 1223 1223 1223 1223 122	1.344 1.352 1.361 1.371 1.380 1.403 1.416 1.449
(cm.1) n 504.9 1.512 510.7 1.519 538.9 1.528 539.6 1.528 557.0 1.528 558.1 1.528 558.2 1.528 558.2 1.528 558.2 1.528 558.1 1.528 558.2 1.528 558.3 1.528 558.1 1.539 569.1 1.530 569.1 1.530 669.1 1.530 669.1 1.530 669.1 1.530 669.1 1.530 669.1 1.530 669.1 1.531 669.1 1.531 671.7 1.544 669.6 1.546 669.1 1.531 669.1 1.531 672.7 1.544 672.7 1.468 672.7 1.	v (cm-1) 846.3 846.3 857.9 885.7 886.3 886.8 886.8 886.8 886.8 886.8 886.8 886.8 886.8 886.8 893.2 903.2 903.2 903.2 903.2 903.3 903	974.6 976.5 978.5 980.4 982.3 986.2 986.2 980.0 990.0
(cm.1) n 504.9 1.512 510.7 1.519 538.9 1.528 539.6 1.528 557.0 1.528 558.1 1.528 558.2 1.528 558.2 1.528 558.2 1.528 558.1 1.528 558.2 1.528 558.3 1.528 558.1 1.539 569.1 1.530 569.1 1.530 669.1 1.530 669.1 1.530 669.1 1.530 669.1 1.530 669.1 1.530 669.1 1.531 669.1 1.531 671.7 1.544 669.6 1.546 669.1 1.531 669.1 1.531 672.7 1.544 672.7 1.468 672.7 1.	k 0.008 0.0027 0.0037 0.0045 0.0045 0.0046 0.0046 0.0046 0.0047 0	0.290 0.292 0.292 0.292 0.290 0.288 0.283 0.279
V (cm ⁻¹) V (cm		
	v (cm-1) 504.9 516.5 516.5 516.5 516.5 516.5 516.5 522.3 533.8 533.8 533.8 532.3 533.8 532.3 533.8 532.0 544.4 557.0 566.4 660.1 673.5 673.5 673.6 673.6 673.6 673.6 673.7 673.8 673.7	782.7 788.5 794.3 800.0 805.8 811.6 817.4 823.2 823.2 83.3 840.5

TABLE 3C—Continued

				TAD.	LE 3C-	-Continue	:u 				
v (cm ⁻¹)	n	k	v (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k	ν (cm ⁻¹)	n	k
2483.0	1.388	0.001	2867.9	1.449	0.054	3252.7	1.309	0.419	3637.5	1.189	0.000
2489.8	1.390	0.002	2874.6	1.454	0.052	3259.5	1.292	0.420	3644.3	1.192	0.000
2496.6	1.391	0.002	2881.4	1.459	0.052	3266.2	1.274	0.419	3651.0	1.195	0.000
2503.3	1.393	0.003	2888.1	1.465 1.470	0.054	3273.0 3279.7	1.258 1.241	0.418 0.415	3657.8 3664.5	1.198 1.201	0.000
2510.1	1.394	0.005	2894.9		0.057	3279.7	1.224		3671.3	1.201	0.000
2516.8 2523.6	1.395 1.395	0.007 0.008	2901.6 2908.4	1.473 1.475	0.061	3293.2	1.224	0.410 0.405	3678.0	1.206	0.000
2530.3	1.394	0.008	2915.1	1.477	0.067	3300.0	1.191	0.399	3684.8	1.208	0.000
2537.1	1.393	0.010	2921.9	1.481	0.071	3306.7	1.176	0.392	3691.5	1.210	0.000
2543.8	1.392	0.010	2928.6	1.483	0.078	3313.5	1.160	0.382	3698.3	1.212	0.000
2550.6	1.392	0.009	2935.4	1.480	0.084	3320.2	1.147	0.373	3705.0	1.214	0.000
2557.3	1.393	0.008	2942.1	1.478	0.083	3327.0	1.134	0.362	3711.8	1.216	0.000
2564.1	1.393	0.007	2948.9	1.482	0.085	3333.7	1.121	0.351	3718.5	1.218	0.000
2570.8	1.394	0.007	2955.6	1.482	0.091	3340.5	1.111	0.339	3725.3	1.220	0.000
2577.6	1.395	0.006	2962.4	1.478	0.093	3347.2	1.101	0.327	3732.0	1.222	0.000
2584.3	1.396	0.006	2969.1	1.475	0.089	3354.0	1.092	0.314	3738.8	1.223	0.000
2591.1	1.398	0.007	2975.9	1.481	0.085	3360.7	1.084	0.302	3745.5	1.225	0.000
2597.8	1.398	0.007	2982.6	1.487	0.089	3367.5	1.076	0.289	3752.3	1.226	0.000
2604.6	1.398	0.007	2989.4	1.488	0.094	3374.2	1.068	0.276	3759.1	1.228	0.000
2611.3	1.399	0.006	2996.1	1.487	0.091	3381.0	1.063	0.263	3765.8	1.229	0.000
2618.1	1.399	0.005	3002.9	1.492	0.086	3387.7	1.058	0.250	3772.6	1.230	0.000
2624.8	1.400	0.004	3009.7	1.503	0.084	3394.5	1.053	0.235	3779.3	1.232	0.000
2631.6	1.402	0.002	3016.4	1.515	0.088	3401.2	1.049	0.221	3786.1	1.233	0.000
2638.3	1.404	0.002	3023.2	1.525	0.095	3408.0	1.048	0.207	3792.8	1.234	0.000
2645.1	1.406	0.000	3029.9	1.534	0.104	3414.7	1.047	0.193	3799.6	1.235	0.000
2651.8	1.409	0.000	3036.7	1.541	0.114	3421.5	1.048	0.181	3806.3	1.237	0.000
2658.6	1.411	0.000	3043.4	1.548	0.126	3428.2	1.049	0.169	3813.1	1.238	0.000
2665.3	1.413	0.000	3050.2	1.553 1.557	0.137	3435.0 3441.7	1.050	0.157 0.147	3819.8 3826.6	1.239 1.240	0.000
2672.1 2678.8	1.416 1.418	0.000	3056.9 3063.7	1.559	0.150 0.163	3448.5	1.051 1.053	0.147	3833.3	1.241	0.000
2685.6	1.421	0.000	3070.4	1.561	0.103	3455.2	1.055	0.137	3840.1	1.242	0.000
2692.3	1.423	0.001	3077.2	1.560	0.177	3462.0	1.057	0.127	3846.8	1.243	0.000
2699.1	1.426	0.001	3083.9	1.559	0.205	3468.7	1.058	0.110	3853.6	1.244	0.000
2705.8	1.428	0.002	3090.7	1.556	0.219	3475.5	1.059	0.100	3860.3	1.245	0.000
2712.6	1.431	0.002	3097.4	1.552	0.232	3482.2	1.061	0.090	3867.1	1.245	0.000
2719.3	1.434	0.003	3104.2	1.548	0.245	3489.0	1.062	0.080	3873.8	1.246	0.000
2726.1	1.437	0.003	3110.9	1.542	0.257	3495.7	1.065	0.069	3880.6	1.247	0.000
2732.8	1.440	0.004	3117.7	1.536	0.268	3502.5	1.070	0.058	3887.3	1.248	0.000
2739.6	1.444	0.005	3124.4	1.529	0.280	3509.3	1.075	0.047	3894.1	1.249	0.000
2746.4	1.448	0.006	3131.2	1.522	0.290	3516.0	1.082	0.037	3900.8	1.250	0.000
2753.1	1.452	0.008	3137.9	1.515	0.301	3522.8	1.091	0.028	3907.6	1.251	0.000
2759.9	1.456	0.009	3144.7	1.507	0.311	3529.5	1.099	0.021	3914.3	1.251	0.000
2766.6	1.461	0.012	3151.4	1.498	0.321	3536.3	1.108	0.016	3921.1	1.252	0.000
2773.4	1.466	0.014	3158.2	1.490	0.330	3543.0	1.116	0.012	3927.8	1.253	0.000
2780.1	1.471	0.019	3164.9	1.480	0.339	3549.8	1.124	0.009	3934.6	1.254	0.000
2786.9	1.477	0.024	3171.7	1.471	0.348	3556.5	1.132	0.006	3941.3	1.254	0.000
2793.6	1.481	0.031	3178.4	1.461	0.358	3563.3	1.139	0.005	3948.1	1.255	0.000
2800.4	1.485	0.039	3185.2	1.450	0.366	3570.0	1.145	0.003	3954.8	1.256	0.000
2807.1	1.488	0.049	3191.9 3198.7	1.438 1.426	0.373 0.381	3576.8 3583.5	1.151 1.156	0.002	3961.6 3968.3	1.256 1.257	0.000
2813.9 2820.6	1.490 1.488	0.061 0.076	3205.4	1.426	0.389	3590.3	1.150	0.000	3975.1	1.257	0.000
2820.6	1.466	0.076	3203.4	1.414	0.396	3590.3	1.166	0.000	3981.8	1.258	0.000
2834.1	1.443	0.097	3212.2	1.386	0.390	3603.8	1.170	0.000	3988.6	1.258	0.000
2840.9	1.434	0.073	3225.7	1.372	0.407	3610.5	1.174	0.000	3995.3	1.259	0.000
2847.6	1.439	0.062	3232.4	1.357	0.412	3617.3	1.178	0.000] """	2.23)	3.000
2854.4	1.443	0.059	3239.2	1.341	0.415	3624.0	1.182	0.000			
2861.1	1.446	0.056	3245.9	1.325	0.418	3630.8	1.185	0.000			
~~~		J.J.J.					:	2.300			

×	000000	0000	0000	000	0.000	0.000	0000	0.000	0000	0000	0000	0.000	0000	0000	0.001	0.001	0.003	0.007	0.017	0.038	0.059	0.060	0.052	0.069	0.057	0.048	0.040
_ =		1.261 1.262 1.263	1.268	1.273	1.278	1.283 1.285	1.287	1.293	1.297	1.300	1.303	1.308	1.312	1.315	1.321	1.326 1.329	1.333	1.343 1.348	1.353	1.355	1.344	1.321	1.328	1.308	1.297 1.291	1.294 1.285	1.272
v (cm ⁻¹ )	1183.4 1185.3 1187.3 1189.2	1193.1 1195.0 1196.9	1198.8	1217.2	1228.7	1240.3 1246.1	1251.9 1257.7 1263.5	1269.3 1275.0	1280.8 1286.6	1292.4 1298.2	1304.0	1315.5 1321.3	1327.1 1332.9	1338.7 1344.5	1350.3 1356.1	1361.8 1367.6	1373.4 1379.2	1385.0 1390.8	1396.6	1408.1	1419.7	1431.3	1437.1	1448.6 1454.4	1460.2 1466.0	1471.8 1477.6	1483.4 1489.2
×	000000	0000	0000	800	0.000	0.000	0.000	0.016	0.033	0.056	0.071	0.077	0.070	0.055	0.037	0.019	0.009	0.002	0.00	0.000	0.002	0.00	0.000	0000	0.000	0.000	0.000
  -	1.129 1.138 1.145 1.154	1.167	1.187	1.203	1.214	1.224	1.236	1.256	1.261	1.260	1.249	1.222	1.209 1.199	1.192	1.19 1.190	1.193 1.199	1.203 1.208	1.213	1.222	1.229	1.233	1.236	1.240	1.241	1.245	1.248	1.252
v (cm ⁻¹ )	1069.6 1071.5 1073.5 1075.4	1079.3 1081.2 1083.1	1085.0	1090.8	1094.7	1098.5	1102.4	1108.2	1112.0	1115.9	1119.8	1123.6	1127.5 1129.4	1131.3	1135.2	1139.0	1142.9 1144.8	1146.8	1150.6	1154.5	1158.3	1162.2	1166.1	1168.0 1169.9	1171.8	1175.7	1179.6
*	0.042 0.039 0.037 0.034	0.030 0.027 0.025	0.023	0.020	0.018	0.018	0.019	0.028	0.054	0.115	0.208	0.285	0.302 0.304	0.317	0.417	0.576	0.655	0.642	0.565	0.385	0.156	0.031	0.0010	0000	0.000	0.00	0.000
u	1.234 1.239 1.246 1.251	1.264 1.270 1.277	1.286	1.310	1.329	1.351	1.377	1.431	1.481	1.530	1.550	1.501	1.472 1.458	1.462 1.509	1.516	1.401	1.257	1.098	0.899	0.786	0.764	0.883	0.932	1.003	1.049	1.082	1.108
v (cm ⁻¹ )	955.8 957.7 959.7 961.6	965.4 967.4 969.3	971.2 973.2	977.0	980.9 982.8	984.7 986.7	988.6 990.5 997.5	994.4	998.2 1000.2	1002.1 1004.0	1006.0	1009.8	1013.7 1015.6	1017.5	1021.4	1025.2 1027.2	1029.1 1031.0	1033.0 1034.9	1036.8	1040.7	1044.5	1048.4	1050.3	1054.2	1058.0 1060.0	1061.9 1063.8	1065.7 1067.7
-×	0.284 0.294 0.304 0.311	0.326 0.334 0.338	0.344	0.356	0.357	0.356	0.351	0.332	0.312	0.287	0.259	0.226	0.192	0.170	0.158	0.147	0.135	0.124	0.113	0.102	0.093	0.083	0.075	0.069	0.061	0.055	0.048
r c	1.499 1.492 1.482 1.476	1.453 1.444 1.432	1.417	1.377	1.350	1.317	1.287	1.245	1.217	1.191	1.173	1.158	1.150	1.1 <b>5</b> 2 1.150	1.152	1.153	1.157	1.161 1.163	1.165	1.170	1.176	1.184	1.187	1.195	1.205	1.213	1.223
v (cm ⁻¹ )	723.4 729.2 734.9 740.7	752.3 758.1 763.9	769.7	787.0	798.6 804.4	810.2 816.0	821.7 827.5 833.3	839.1 844.9	850.7 856.5	862.2 868.0	873.8 879.6	885.4 891.2	897.0 901.8	903.7 905.6	907.6 909.5	911.4 913.4	915.3	919.2 921.1	923.0	926.9 928.8	930.7	934.6	938.4	940.4 942.3	944.2 946.2	948.1 950.0	951.9 953.9
¥.	0.021 0.022 0.023 0.022	0.028	0.038	0.050	0.055	0.062	0.068	0.086	0.099	0.111	0.119	0.125	0.132	0.139	0.141	0.147	0.152	0.158	0.165	0.173	0.182	0.194	0.201	0.216	0.233	0.251	0.269
F	1.480 1.480 1.482 1.483	1.498	1.508	1.513	1.516	1.522	1.528	1.537	1.538	1.536	1.530	1.527	1.524	1.521	1.521 1.520	1.520	1.519	1.521 1.521	1.522	1.524	1.527	1.527	1.528	1.526	1.524	1.516	1.507
v (cm ⁻¹ )	392.5 394.5 396.4 398.3 405.1	410.9 416.7 422.4	434.0	445.6 451.4	457.2	468.7 474.5	480.3 486.1 491.9	497.7	509.2 515.0	520.8	532.4	544.0 549.8	555.5 561.3	567.1 572.9	578.7 584.5	590.3 596.1	601.8	613.4 619.2	625.0	636.6	648.1	659.7	671.3	677.1 682.9	688.6 694.4	700.2	711.8
<u>×</u>	0.096 0.096 0.091 0.091	0.085 0.085 0.079	0.076	0.068	0.061	0.058	0.053	0.046	0.038	0.030	0.022	0.017	0.012 0.011	0.009	0.005	0.00	0.000	0.000	0.000	0.003	0.007	0.009	0.010	0.012	0.014	0.016 0.016	0.018
=	1.349 1.350 1.352 1.355	1358 1359 1357	1.360	1.361	1.365	1.368	1.371	1374	1.376	1.380	1.384	1.389	1.396	1.403 1.408	1.411	1.420 1.424	1.429	1.437	1.443	1.450	1.455	1.460	1.465	1.466 1.469	1.470	1.474	1.477
v (cm ⁻¹ )	278.7 280.7 282.6 284.5 284.5	288.4 290.3 292.2	294.2 296.1	300.0 300.0 301.9	303.8	307.7 309.6	311.5	317.3	321.2 323.1	325.0 327.0	328.9	332.7 334.7	336.6 338.5	340.5 342.4	344.3 346.3	348.2 350.1	352.0 354.0	355.9 357.8	359.8 361.7	363.6 365.5	367.5	371.3	375.2	377.1 379.0	381.0	384.8 386.8	388.7 390.6
×	0.251 0.253 0.264 0.261	0.278 0.285 0.292	0.300	0.302	0.312	0.321	0.333	0.350	0.347	0.336	0.316	0.301	0.280	0.263	0.248	0.228	0.213	0.198	0.185	0.169	0.159	0.147	0.140	0.127	0.119	0.112	0.101
   	1.640 1.634 1.625 1.625	1.615 1.614 1.608	1.599	1.577	1.560	1.54	1.522	1.485	1.455	1.425	1.400	1.380	1.365	1.354 1.350	1.349 1.344	1.342	1.340	1.334	1.331	1.334	1.332	1.331	1.335	1.337	1.344	1.345	1.345
v (cm ⁻¹ )	164.9 166.9 168.8 170.7	174.6 176.5 178.4	180.4	186.1	190.0	193.9	197.7	203.5	207.4	211.2	215.1	218.9 220.9	222.8 224.7	226.7 228.6	230.5	234.4	238.2	242.1 244.0	245.9	249.8 251.7	253.7	257.5	261.4	263.3 265.2	267.2	271.0 273.0	274.9
<u>×</u>	000000	0.016 0.011 0.025	0.009	0.016	0.021	0.025	0.029	0.038	0.045	0.051	0.059	0.074	0.070	0.095	0.126 0.135	0.136	0.148	$0.150 \\ 0.139$	0.155	0.164	0.173	0.189	0.205	0.219	0.220	0.220	0.236
ll .		1.648 1.648 1.662	1.654	1.659	1.663	1.667	1.671	1.679	1.683	1.688	1.696	1.692 1.687	1.690	1.717	1.707	1.698	1.696	1.695	1.693	1.682	1.688	1.680	1.679	1.666	1.663	1.658 1.660	1.652 1.648
v (cm ⁻¹ )	51.1 53.0 55.0 56.9	62.7 64.6	66.5 68.5	72.3	76.2	80.1	8.53 6.83.9	89.7	93.6 95.5	97.4	101.3	105.1	109.0	112.8	116.7	120.6	124.4	128.3	132.1	136.0	139.9	143.7	147.6	151.4	153.4	157.2	161.1

k	000	0000	98.00	88	98	000.0	900	0.000	000	300	0.00	0000	900	0000	00.0	0000	000	900	0000	0.000	0.000	0000	000	0000	0.000	000	0000	0.000	000	000	0.000	0000	000	0.000	88	0000	0.00	000	300	000	000	000	0.000	33.	$\neg$
u	ı						1.218										1.234 (						1.240		1.243			1.246					1.251		1.252 (	_			1.255	_	1.256	1.257	1.257	1.238	
v (cm ⁻¹ )	3675.6	3681.4	3693.0	3698.8	3710.3	3716.1	3727.7	3733.5	3739.3	3750.9	3756.6	3762.4	3768.2	3779.8	3785.6	3791.4	3797.1	3808.7	3814.5	3820.3	3826.1	3831.9	3837.7	3849.2	3855.0	3860.8	3872.4	3878.2	3884.0	3895.5	3901.3	3907.1	3912.9	3924.5	3930.2	3941.8	3947.6	3953.4	3965.0	3970.8	3976.5	3988.1	3993.9	1.8886	
×	0.341	0.330	0.307	0.297	0.273	0.261	0.235	0.222	0.207	0.183	0.172	0.161	0.151	0.132	0.124	0.115	0.109	0.093	0.085	0.076	0.067	0.057	0.04	0.033	0.027	0.021	0.013	0.010	0.008	0.00	0.003	0.002	000	0.00	0.00	0000	0.000	900	000	0.00	0.00	00.0	0.00	0.00	
	1.109	1.099	1.059	1.052	1.052	1.047	1.053	1.04	1.026	1.035	1.036	1.038	.c45.	1.039	1.042	1.045	1.051	1.059	1.061	1.062	1.060	2 2 3 3	1.069	1.083	1.091	1.098	1.113	1.118	1.125	1.137	1.142	1.147	1.156	1.160	25.5	1.172	1.175	1.178	1.184	1.187	1.18 5.5	1.195	1.197	1.202	
v (cm ⁻¹ )	3340.0	3345.8	3357.3	3363.1	3374.7	3380.5	3392.1	3397.9	3403.6	3415.2	3421.0	3426.8	3432.0	3444.1	3449.9	3455.7	3461.5	3473.1	3478.9	3484.7	3490.4	3496.2	3502.0	3513.6	3519.4	3525.2	3536.7	3542.5	3548.3	3559.9	3565.7	3571.5	3583.0	3588.8	3594.6	3606.2	3612.0	3617.8	3629.3	3635.1	3640.9	3652.5	3658.3	3669.8	
<u>×</u>	980.0	980	0.095	0.102	0.110	0.130	0.142	0.165	0.177	0.201	0.214	0.228	0.240	0.263	0.275	0.284	0.2y 20.2	0.316	0.324	0.333	0.341	0.350	0.557	0.372	0.381	0.388	0.401	0.405	0.410	0.422	0.425	0.428	0.429	0.431	0.431	0.430	0.428	0.424	0.413	0.406	0.399	0.384	0.374	0.352	
_ =	1.496	1.506	1.528	1.536	1.555	1.560	1.558	1.559	1.568	1.577	1.575	1.556	1.552	1.552	1.546	1.552	1.546	1.508	1.500	1.490	1.496	1.487	1.493	1.474	1.435	1.424	1.416	404.	204.1	1.350	1.337	1.323	1.310	1.314	1.298	1.234	1.219	1.203	1.191	1.193	6,11	1.123	1.11	1.104	
v (cm ⁻¹ )	3004.3	3010.1	3021.7	3027.5	3039.1	3044.9	3056.4	3062.2	3068.0	3079.6	3085.4	3091.1	3096.9	3108.5	3114.3	3120.1	3125.9	3137.4	3143.2	3149.0	3154.8	3160.6	3166.4	3178.0	3183.7	3189.5	3201.1	3206.9	3212.7	3224.2	3230.0	3235.8	3247.4	3253.2	3259.0	3270.5	3276.3	3282.1	3293.7	3299.5	3305.3	3316.8	3322.6	3334.2	
ж.	0.000	000	0.000	0.00	0.001	0.002	0.003	0.003	0.004	0.00	0.007	0.008	0.010	0.014	0.018	0.022	0.027	0.040	0.048	0.057	0.068	0.083	0.095	0.069	0.059	0.056	0.051	0.050	0.050	0.050	0.054	0.058	0.00	0.067	0.071	0.083	0.084	0.084	0.094	0.094	0.088	0.087	0.093	0.090	
	-	1.415	1.419	1.422	1.424	1.428	1.431	1.436	1.439	1.444	1.448	1.452	1.455	1.46	1.469	1.471	1.475	1.483	1.485	1.488	1.487	1.482	1.436	1.432	1.439	1.443	1.452	1.452	1.456	1.467	1.471	1.477	1.482	1.479	1.483	1.485	1.483	1.488	1.487	1.475	2,47 2,47 4,84	1.491	1.493	1.497	
v (cm ⁻¹ )	2668.7	2674.5	2686.1	2691.9	2703.4	2709.2	2720.8	2726.6	2732.4	2743.9		2755.5	2767.1	2772.9	2778.7	2784.4	2790.2	2801.8	2807.6	2813.4	2819.2	2825.0	2836.5				2865.5		0.7/82		2894.4		2911.8	2917.5	2923.3	2934.9	2940.7	2946.5	2958.1	2963.8	2969.6	2981.2	2987.0	2998.6	
¥	ı								0.00		0.000		0.00	0.00	0.002	0.002	0.002	0.00	0.000	0.00	0.000	0.001	0.00	0.003	0.00	0.000	0.008	0.00	0.010	0.000	0.008	0.008	0.00	0.006	0.005	0.00	0.006	0.00	0.005	0.003	0.002	0.000	0000	0000	0.00
E .	1.364	1.365	1.365	1.367	1.367	1.368	1.369	1.370	1.371	1.373	1.374	1.375	1.376	1.377	1.378	1.378	1.379	1.381	1.382	1.383	1.384	1.386	1.38	1.390	1.391	1.392	1.392	1.392	1.391	1.390	1.390	1.391	1.391	1.393	1.394	1.396	1.396	1.397	1.398	1.399	1.400	1.403	1.405	1.409	1.711
v (cm ⁻¹ )	2327.3	2333.1	2344.6	2350.4	2362.0	2367.8	2379.4	2385.2	2390.9	2402.5	2408.3	2414.1	2419.9	2431.4	2437.2	2443.0	2448.8	2460.4	2466.2	2472.0	2477.7	2483.5	2489.3	2500.9	2506.7	2512.5	2524.0	2529.8	2535.6	2547.2	2553.0	2558.8	2570.3	2576.1	2581.9	2593.5	2599.3	2605.1	2616.6	2622.4	2628.2	2639.8	2645.6	2657.1	4,000
*	0.004	90.00	0.008	0.010	0.00	0.00	0.00	0.006	900	0.00	0.00	0.006	0.00	0.007	0.007	0.007	) ) ) (0 )	0.00	0.008	0.008	0.00	90.0	0.00	0.00	0.00	0.00	0.00	0.010	0.010	0.010	0.010	0.010	0.01	0.012	0.012	0.011	0.010	98	0.00	0.007	0.00	0.00	0.00	0.00	75.00
	1.362	1.363	1.363	1.361	1.358	1.359	1.359	1.360	3.00	1.361	1.362	1.361	1.362	1.362	1.362	1.363	1.363	1.362	1.363	1.363	1.362	1.363	1.362	1.362	1.362	362	1.363	1.362	1.362	1.363	1.362	1.362	1.362	1.361	1.361	1.360	1.359	1.359	1.360	1.360	1.361	1.362	1.362	1.363	5
v (cm ⁻¹ )	2126.7	2128.6	2132.5	2134.4	2138.2	2140.2	2144.0	2146.0	2147.9	2151.8	2153.7	2155.6	2159.5	2161.4	2163.3	2165.3	21017	2171.0	2173.0	2174.9	2176.8	2178.8	2182.6	2184.5	2186.5	2188.4	2192.3	2194.2	2196.1	2205.8	2211.5	2217.3	2228.9	2234.7	2240.5	2252.1	2257.8	2263.6	2275.2	2281.0	2292.6	2298.4	2304.1	2315.7	
يد.	0.001	0.00	0.00	000	000	0.001	0.00	0.000		90.0	0.00	0.00	300	0.000	0.002	0.002	0.002 0.002	0.002	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0	90.0	9.5	0.00	0.002	0.002	00.0	0.002	0.00	0.002	0.002	960	0.002	0.002	0.00	0.003	0.003	900	50.0
-	1.335	1.335	1.336	1.337	1.338	1.339	1.339	1.339	240	134	1.342	1.343	3.4	1.345	1.345	1.345	1.345	1.346	1.347	1.347	1.348	1.348	1.349	1.349	1.350	1351	1.352	1.352	1.351	1.351	1.352	1.353	1.355	1.356	1.350	1.358	1.358	1.358	1.359	1.359	36.5	1.360	1.360	1.361	1,77
v (cm ⁻¹ )	1836.4	1842.2	1853.7	1859.5	1871.1	1876.9	1888.4	1894.2	1900.0	1911.6	1917.4	1923.2	1934.7	1940.5	1946.3	1952.1	7.7591	1969.5	1975.3	1981.0	1986.8	1992.6	2004.2	2010.0	2015.8	2021.5	2033.1	2038.9	2044.7	2056.3	2062.1	2067.8	2079.4	2085.2	2091.0	2101.6	2103.5	2105.5	2109.3	2111.2	2113.2	2117.0	2119.0	2122.8	1.T414
<b>بد</b>	0.012	0.00	0.000	000	0.00	0.002	0.00	0.00	0.00	0.00	0.00	0.006	0.00	0.008	0.008	0.008	0.00	0.011	0.012	0.013	0.015	0.01	0.022	0.024	0.025	0.025	0.022	0.020	0.018	0.013	0.012	0.010	0.00	0.006	900	0.003	0.003	0.007	0.00	0.00	000	0.001	000	0.00	100.0
c	1.276	1.283	1.296	1.301	1.309	1.311	1316	1.317	1.318	1.321	1.322	1.322	1.324	1.326	1.326	1.328	1.320	1.330	1.331	1.332	1.333	1.333	1.333	1.329	1.325	1.323	1.318	1.318	1.31/	1.316	1.316	1.317	1.318	1.320	1.320	1.322	1.324	1.325	1.327	1.328	1.330	1.330	1.331	1.333	1.00
v (cm ⁻¹ )	1494.9	1506.5	1512.3	1518.1	1529.7	1535.4	1547.0	1552.8	1564.4	1570.2	1576.0	1581.7	1593.3	1599.1	1604.9	1610.7	1622.3	1628.0	1633.8	1639.6	1645.4	1651.2	1662.8	1668.5	1674.3	1685.9	1691.7	1697.5	17091	1714.8	1720.6	1726.4	1738.0	1743.8	1755.3	1761.1	1766.9	1778.5	1784.3	1790.1	1801.6	1807.4	1813.2	1824.8	100000

k	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001
l c	1369 1369 1369 1369 1369 1369 1369 1369	1.390
v (cm ⁻¹ )	2166.7 2170.6 21770.6 21770.6 21770.6 21770.6 21770.6 2176.3 2176.3 2176.3 2176.3 2176.3 2186.0 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187.1 2187	2476.3
×	0.000000000000000000000000000000000000	0.008
٦	1353 1353 1353 1353 1353 1353 1353 1353	1.369
v (cm ⁻¹ )	1957.4 1963.2 1963.2 1963.2 1963.0 1977.4 1986.3 1986.3 1986.3 1997.9 1986.3 1997.9 1997.1 1997.1 1997.1 1997.1 1997.1 2009.5 2009.5 2009.5 2009.5 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 2009.3 20	2164.8
×	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000
c	1336 1336 1337 1338 1338 1338 1338 1338 1338 1338	1.353
v (cm ⁻¹ )	1616.0 1621.8 1621.8 1633.3 1633.3 1644.9 1650.7 1662.3 1662.3 1662.3 1662.3 1673.9 1673.9 1673.9 1673.9 1673.9 1673.9 1673.9 1673.9 1720.1 1720.1 1720.1 1720.1 1720.1 1720.1 1720.1 1737.5 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 1743.3 17	1951.6
<b>X</b>	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.00
u	1315 1318 1318 1318 1318 1322 1323 1333 1333	1.335
v (cm ⁻¹ )	124.6 1280.3 1280.3 1303.5 1303.5 1303.5 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 1315.1 131	1610.2
×	0.000000000000000000000000000000000000	0.000
u	48484844444444444444444444444444444	1.311
v (cm ⁻¹ )	1109.6 1111.6 1111.5 1111.5 1111.5 1111.5 1111.5 1111.5 1123.8 1130.8 1130.8 1130.8 1130.8 1130.8 1130.8 1142.4 1144.4 1144.4 1144.4 1147.1 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9 1157.9	1268.8
<b>×</b>	0.0025 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.	0.014
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v (cm ⁻¹ )	995.8 997.8 997.8 1001.5 1000.5 1000.5 1011.3 1011.0 1012.0 1012.0 1026.7 1026.7 1026.7 1026.7 1026.7 1026.7 1036.3 1036.3 1037.7 1047.0 1047.0 1057.5 1067.2 1067.2 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3 1067.3	1107.7
*	0.306 0.207 0.208 0.208 0.208 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108	0.020
u	1389 1310 1310 1310 1310 1310 1310 1310 131	1.423
v (cm ⁻¹ )	846.3 872.1 873.9 873.1 886.3 873.9 887.9 887.9 887.9 887.9 887.1 886.3 897.1 897.1 997.2 997.2 997.2 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3 997.3	993.9
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v (cm ⁻¹ )	504.9 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 510.7 51	840.5

TABLE 3E—Continued

2483.0	<del></del>											
2488.8         1.393         0.002         2874.6         1.471         0.048         3259.5         1.240         0.457         3644.3         1.195         0.000           2503.3         1.396         0.003         2881.4         1.477         0.049         3266.2         1.221         0.451         3651.0         1.198         0.000           2510.8         1.397         0.007         2901.6         1.482         0.050         3273.7         1.185         0.436         3664.5         1.203         0.000           2530.3         1.397         0.008         2908.4         1.495         0.065         3285.5         1.167         0.427         3671.3         1.206         0.000           2530.3         1.397         0.009         2921.5         1.501         0.074         3306.7         1.122         0.395         3691.5         1.212         0.000           2530.6         1.395         0.008         2928.6         1.503         0.082         3331.5         1.108         0.382         3698.3         1.214         0.000           2550.6         1.395         0.008         2935.4         1.501         0.008         3323.7         1.043         0.383         1.222	ν (cm ⁻¹ )		<u>k</u>	ν (cm ⁻¹ )		<u>k</u>	ν (cm ⁻¹ )		k	ν (cm ⁻¹ )		k
2496.6   1.394   0.002   2881.4   1.477   0.049   3266.2   1.221   0.451   3651.0   1.198   0.000												
2503.3   1.396   0.003   2888.1   1.482   0.052   3273.0   1.202   0.444   3657.8   1.201   0.000   2516.8   1.397   0.007   2901.6   1.492   0.060   3286.5   1.167   0.427   3678.0   1.208   0.000   2523.6   1.397   0.008   2908.4   1.495   0.065   3293.2   1.151   0.417   3678.0   1.208   0.000   2530.3   1.397   0.009   2915.1   1.497   0.069   3300.0   1.136   0.406   3684.8   1.210   0.000   2537.1   1.396   0.009   2921.9   1.501   0.074   3306.7   1.122   0.395   3691.5   1.212   0.000   2537.1   1.395   0.009   2928.6   1.503   0.082   3313.5   1.108   0.382   3698.3   1.214   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2557.3   1.396   0.007   2942.1   1.501   0.097   3337.1   0.073   0.341   3718.5   1.219   0.000   2577.6   1.399   0.005   2955.6   1.496   0.009   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2955.6   1.496   0.009   3334.0   1.048   0.300   3738.8   1.222   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3336.7   1.044   0.285   3745.5   1.225   0.000   2597.8   1.403   0.006   2982.6   1.508   0.008   3347.2   1.056   0.314   3732.0   1.222   0.000   2597.8   1.403   0.006   2982.6   1.508   0.008   3354.0   1.048   0.300   3738.8   1.224   0.000   2597.8   1.403   0.006   2982.6   1.508   0.009   3334.0   1.048   0.305   3745.5   1.225   0.000   2604.6   1.403   0.005   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.225   0.000   2618.1   1.405   0.003   3009.7   1.525   0.009   3384.5   1.019   0.207   3779.3   1.228   0.000   2631.6   1.406   0.003   3009.7   1.525   0.009   3384.5   1.019   0.107   3779.3   1.228   0.000   2638.3   1.410   0.000   3003.2   1.515   0.098   3387.7   1.021   0.190   3786.1   1.233   0.000   2645.1   1.412   0.000   3005.2   1.515   0.009   3384.5   1.019   0.107   3792.8   1.235   0.000   2638.3   1.410   0.000   3005.2   1.515   0.009   3384.5   1.019   0.107   3792.8   1.235   0.000   2638.3   1.410   0.000   3005.2   1.515   0.												
2510.1   1.397   0.005   2894.9   1.487   0.055   3279.7   1.185   0.436   3664.5   1.203   0.000   2516.8   1.397   0.008   2908.4   1.495   0.065   3293.2   1.167   0.427   3671.3   1.206   0.000   2533.6   1.397   0.009   2915.1   1.497   0.069   3300.0   1.136   0.406   3684.8   1.210   0.000   2537.1   1.396   0.009   2921.9   1.501   0.074   3306.7   1.122   0.395   3691.5   1.212   0.000   2550.6   1.395   0.009   2928.6   1.503   0.082   3313.5   1.08   0.382   3698.3   1.214   0.000   2550.6   1.395   0.008   2935.4   1.501   0.088   3320.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.399   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2584.3   1.401   0.005   2959.1   1.494   0.093   3334.0   1.048   0.300   3738.8   1.224   0.000   2597.8   1.402   0.005   2975.9   1.502   0.091   3367.5   1.035   0.271   3752.3   1.222   0.000   2507.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.222   0.000   2604.6   1.403   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.225   0.000   2611.3   1.404   0.004   2996.1   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.000   3030.7   1.525   0.099   3384.5   1.019   0.175   3792.8   1.235   0.000   2631.6   1.408   0.003   300.7   1.525   0.099   3384.5   1.019   0.175   3792.8   1.235   0.000   2638.3   1.410   0.000   3035.7   1.525   0.099   3394.5   1.019   0.175   3792.8   1.235   0.000   2638.3   1.410   0.000   3036.7   1.555   0.104   3408.0   1.019   0.175   3792.8   1.235   0.000   2638.3   1.410   0.000   3036.7   1.555   0.17												
2516.8   1.397   0.007   2901.6   1.492   0.065   3293.2   1.167   0.427   3671.3   1.206   0.000   2533.3   1.397   0.008   2908.4   1.495   0.065   3293.2   1.151   0.417   3678.0   1.208   0.000   2537.1   1.396   0.009   2915.1   1.497   0.069   3300.0   1.136   0.406   3684.8   1.210   0.000   2537.1   1.396   0.009   2921.9   1.501   0.074   3306.7   1.122   0.395   3691.5   1.212   0.000   2543.8   1.395   0.009   2928.6   1.503   0.082   3313.5   1.080   0.382   3698.3   1.214   0.000   2550.6   1.395   0.008   2935.4   1.501   0.088   3320.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.097   3333.7   1.073   0.341   3718.5   1.219   0.000   2577.6   1.399   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2591.1   1.402   0.005   2969.1   1.494   0.093   3354.0   1.048   0.300   3738.8   1.224   0.000   2597.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3732.3   1.227   0.000   2604.6   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2618.1   1.404   0.004   2996.1   1.508   0.102   3374.2   1.026   0.273   3775.3   1.228   0.000   2624.8   1.406   0.003   3009.7   1.525   0.098   3387.7   1.021   0.224   3772.6   1.231   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3412.1   0.109   0.175   3792.8   1.235   0.000   2645.1   1.412   0.000   3032.2   1.554   0.121   3414.7   1.029   0.145   3866.3   1.237   0.000   2653.8   1.410   0.000   3036.7   1.556   0.121   3414.7   1.022   0.159   3799.6   1.233   0.000   2653.8   1.410   0.000   3036.7   1.556   0.121   3414.7   1.022   0.159   3799.6   1.233   0.000   2653.8   1.417   0.000   3036.7   1.556   0.123   3414.7   1.029   0.110   3826.6   1.240   0.000   2662.3   1.420   0.000   3036.7   1.556   0.123   3442.5   1.049   0.014   3880.6   1.247   0.000   272.6   1.443   0.000   3037.2   1.579   0.1												
2523.6   1.397   0.008   2908.4   1.495   0.065   3293.2   1.151   0.417   3678.0   1.208   0.000   2537.1   1.396   0.009   2921.9   1.501   0.074   3306.7   1.122   0.395   3691.5   1.212   0.000   2543.8   1.395   0.009   2921.9   1.501   0.074   3306.7   1.122   0.395   3691.5   1.212   0.000   2543.8   1.395   0.008   2935.4   1.501   0.088   3302.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3320.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.398   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2956.1   1.494   0.098   3344.5   1.065   0.328   3725.3   1.221   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.225   0.000   2597.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2604.6   1.403   0.005   2989.4   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2618.1   1.405   0.003   3002.9   1.515   0.098   3387.7   1.021   0.224   3772.6   1.231   0.000   2638.3   1.410   0.000   3036.7   1.555   0.099   3394.5   1.019   0.175   3792.8   1.235   0.000   2638.3   1.410   0.000   3036.7   1.556   0.192   3441.7   1.022   0.159   3799.6   1.235   0.000   2658.6   1.417   0.000   3063.7   1.556   0.132   341.7   1.020   0.113   3819.8   1.239   0.000   2665.3   1.419   0.000   3063.7   1.556   0.132   341.7   1.039   0.110   3826.6   1.240   0.000   2665.3   1.440   0.000   3063.7   1.556   0.132   341.7   1.039   0.110   3826.6   1.240   0.000   2665.3   1.419   0.000   3063.7   1.556   0.132   341.7   1.039   0.110   3826.6   1.240   0.000   2665.3   1.419   0.000   3063.7   1.576   0.134   3428.2   1.068   0.057   3867.3   1.245   0.000   2705.8   1.434   0.002   3090.7   1.576   0.243												
2530.3   1.397   0.009   2921.5   1.497   0.069   3300.0   1.136   0.406   3684.8   1.210   0.000   2531.8   1.395   0.009   2928.6   1.503   0.082   3313.5   1.108   0.382   3691.5   1.212   0.000   2550.6   1.395   0.008   2935.4   1.501   0.088   3320.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.399   0.006   2948.9   1.500   0.097   3333.7   1.073   0.341   3718.5   1.219   0.000   2577.6   1.399   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2594.3   1.401   0.005   2969.1   1.494   0.093   3354.0   1.048   0.300   3738.8   1.224   0.000   2597.8   1.402   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2604.6   1.403   0.005   2989.4   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.1   1.405   0.003   3009.7   1.525   0.099   3387.7   1.021   0.224   3772.6   1.231   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   0.207   3779.3   1.232   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   0.109   0.75   3792.8   1.235   0.000   2653.6   1.417   0.000   3029.9   1.554   0.112   3441.7   1.022   0.159   3799.8   1.235   0.000   2658.6   1.417   0.000   3050.2   1.571   0.157   0.153   0.104   3488.5   1.045   0.003   3333.3   1.231   0.000   26653.8   1.419   0.000   3050.2   1.571   0.157   0.157   3435.0   0.034   0.121   3819.8   1.239   0.000   26653.8   1.419   0.000   3050.2   1.571   0.157   0.157   0.157   0.050   0.159   3792.8   1.235   0.000   26653.8   1.419   0.000   3050.2   1.576   0.122   3488.5   1.049   0.091   3840.1   1.242   0.000   2678.8   1.424   0.000   3063.7   1.578   0.184   3448.5   1.044   0.100   3833.3   1.241   0.000   26656.3   1.419   0.000   3050.2   1.571   0.157   0.157   3435.0   0.004   0.159   3840.1   1.242   0.000   2705.8   1											1.208	
2537.1   1.396   0.009   2921.9   1.501   0.074   3306.7   1.122   0.395   3691.5   1.212   0.000   2557.3   1.395   0.008   2935.4   1.501   0.088   3320.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.397   0.006   2948.9   1.500   0.097   3333.7   1.073   0.341   3718.5   1.219   0.000   2570.8   1.398   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.225   0.000   2597.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2604.6   1.403   0.005   2989.4   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2611.3   1.404   0.004   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2618.1   1.405   0.003   3002.9   1.551   0.099   3384.5   1.019   0.207   3779.3   1.322   0.000   2634.8   1.406   0.003   3002.9   1.555   0.099   3384.5   1.019   0.207   3779.3   1.322   0.000   2638.6   1.410   0.000   3036.7   1.555   0.099   3384.5   1.019   0.207   3779.3   1.323   0.000   2638.3   1.410   0.000   3036.7   1.555   0.099   3384.5   1.019   0.207   3779.3   1.323   0.000   2638.6   1.410   0.000   3036.7   1.555   0.099   3344.7   1.022   0.593   3799.6   1.235   0.000   2651.8   1.414   0.000   3036.7   1.551   0.018   3441.7   1.022   0.159   3799.6   1.235   0.000   2651.8   1.414   0.000   3036.7   1.551   0.157   3435.0   0.109   3786.1   1.233   0.000   2651.8   1.414   0.000   3036.7   1.551   0.157   3435.0   0.109   3799.6   1.235   0.000   2651.8   1.414   0.000   3036.7   1.551   0.157   3435.0   0.109   3799.6   1.235   0.000   2766.1   1.412   0.000   3056.9   1.575   0.157   3444.7   1.022   0												
2550.6   1.395   0.008   2935.4   1.501   0.088   3320.2   1.096   0.369   3705.0   1.216   0.000   2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.398   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3718.5   1.224   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.224   0.000   2591.1   1.402   0.005   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2604.6   1.403   0.005   2982.6   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2618.1   1.405   0.003   3002.9   1.515   0.098   3387.7   1.021   0.224   3772.6   1.231   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   1.018   0.190   3786.1   1.233   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   1.018   0.190   3786.1   1.233   0.000   2651.8   1.414   0.000   3023.2   1.546   0.112   3408.0   1.019   0.175   3792.8   1.235   0.000   2651.8   1.414   0.000   3036.7   1.561   0.132   3421.5   1.026   0.145   3806.3   1.237   0.000   2651.8   1.414   0.000   3036.7   1.561   0.132   3421.5   1.026   0.145   3806.3   1.237   0.000   2672.1   1.421   0.000   3035.0   1.575   0.170   3441.7   1.039   0.110   3826.6   1.240   0.000   2692.3   1.429   0.000   3063.7   1.578   0.184   3448.5   1.044   0.100   3833.3   1.241   0.000   2692.3   1.429   0.000   3077.2   1.579   0.213   3462.0   1.054   0.082   3846.8   1.243   0.000   2692.3   1.429   0.000   3077.2   1.579   0.213   3462.0   1.054   0.082   3846.8   1.243   0.000   2793.6   1.430   0.001   3131.7   1.555   0.301   3502.5   1.086   0.034   3887.3   1.248   0.000   2793.6   1.440   0.001   3117.7   1.555   0.												
2557.3   1.396   0.007   2942.1   1.501   0.091   3327.0   1.084   0.356   3711.8   1.218   0.000   2570.8   1.398   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2594.3   1.401   0.005   2969.1   1.494   0.093   3354.0   1.048   0.300   3738.8   1.224   0.000   2591.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2597.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2604.6   1.403   0.005   2989.4   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2618.1   1.405   0.003   3002.9   1.515   0.098   3387.7   1.021   0.224   3772.6   1.231   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   1.018   0.190   3786.1   1.233   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   1.018   0.190   3786.1   1.233   0.000   2631.6   1.412   0.000   3023.2   1.546   0.112   3408.0   1.019   0.175   3792.8   1.235   0.000   2658.6   1.417   0.000   3033.7   1.551   0.134   3414.7   1.022   0.159   3799.6   1.235   0.000   2658.6   1.417   0.000   3036.7   1.561   0.132   3421.5   1.026   0.145   3806.3   1.237   0.000   2658.6   1.417   0.000   3063.7   1.576   0.144   3428.2   1.030   0.132   3813.1   1.238   0.000   2672.1   1.421   0.000   3050.2   1.571   0.157   3441.7   1.022   0.159   3840.1   1.242   0.000   2678.8   1.424   0.000   3063.7   1.578   0.184   3448.5   1.044   0.100   3833.3   1.241   0.000   2692.3   1.429   0.000   3070.4   1.579   0.198   3455.2   1.049   0.091   3840.1   1.242   0.000   2692.3   1.429   0.000   3070.4   1.579   0.183   3462.0   1.054   0.082   3846.8   1.243   0.000   2795.8   1.434   0.002   3090.7   1.576   0.243   3462.5   1.049   0.091   3840.1   1.246   0.000   2795.8   1.440   0.004   3110.9   1.562   0.	2543.8		0.009	2928.6	1.503	0.082	3313.5	1.108	0.382	3698.3	1.214	0.000
2564.1   1.397   0.006   2948.9   1.500   0.097   3333.7   1.073   0.341   3718.5   1.219   0.000   2577.6   1.399   0.005   2952.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.221   0.000   2584.3   1.401   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.225   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.225   0.000   2604.6   1.403   0.005   2989.4   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2618.1   1.405   0.003   3009.7   1.525   0.099   3394.5   1.019   0.207   3779.3   1.232   0.000   2638.3   1.410   0.000   3009.7   1.525   0.099   3394.5   1.019   0.207   3779.3   1.232   0.000   2638.3   1.410   0.000   3023.2   1.546   0.112   3408.0   1.018   0.190   3786.1   1.233   0.000   2651.8   1.414   0.000   3029.9   1.554   0.121   3414.7   1.022   0.159   3799.6   1.235   0.000   2658.6   1.417   0.000   3030.2   1.571   0.157   3435.0   1.034   0.121   3819.8   1.239   0.000   26653   1.419   0.000   3050.2   1.571   0.157   3435.0   1.034   0.121   3819.8   1.239   0.000   2672.1   1.421   0.000   3063.7   1.578   0.184   3448.5   1.044   0.100   3833.3   1.241   0.000   2665.3   1.419   0.000   3063.7   1.578   0.184   3448.5   1.044   0.100   3833.3   1.241   0.000   2665.3   1.419   0.000   3070.4   1.579   0.198   3455.2   1.049   0.091   3840.1   1.242   0.000   2692.3   1.429   0.000   3070.4   1.579   0.198   3455.2   1.049   0.091   3840.1   1.242   0.000   2712.6   1.431   0.001   3083.9   1.576   0.243   3488.5   1.044   0.100   3833.3   1.241   0.000   2712.6   1.431   0.001   3083.9   1.576   0.243   3468.7   1.059   0.074   3833.6   1.244   0.000   2712.6   1.437   0.002   3097.4   1.576   0.243   3488.0   1.054   0.082   3846.8   1.243   0.000   2732.8   1.446   0.000   3114.7   1.555   0.3												
2570.8   1.398   0.005   2955.6   1.496   0.100   3340.5   1.065   0.328   3725.3   1.221   0.000   2577.6   1.399   0.005   2962.4   1.492   0.098   3347.2   1.056   0.314   3732.0   1.222   0.000   2591.1   1.402   0.005   2975.9   1.502   0.091   3360.7   1.041   0.285   3745.5   1.225   0.000   2597.8   1.403   0.006   2982.6   1.508   0.098   3367.5   1.035   0.271   3752.3   1.227   0.000   2604.6   1.403   0.005   2989.4   1.508   0.102   3374.2   1.029   0.255   3759.1   1.228   0.000   2611.3   1.404   0.004   2996.1   1.508   0.100   3381.0   1.024   0.239   3765.8   1.230   0.000   2618.1   1.405   0.003   3002.9   1.515   0.098   3387.7   1.021   0.224   3772.6   1.231   0.000   2631.6   1.408   0.002   3016.4   1.536   0.104   3401.2   1.018   0.199   3786.1   1.233   0.000   2638.3   1.410   0.000   3023.2   1.546   0.112   3408.0   1.019   0.175   3792.8   1.235   0.000   2658.6   1.417   0.000   3029.9   1.554   0.121   3414.7   1.022   0.159   3799.6   1.235   0.000   2658.6   1.417   0.000   3050.2   1.571   0.157   3435.0   1.034   0.121   3819.8   1.239   0.000   2672.1   1.421   0.000   3050.2   1.575   0.170   3441.7   1.039   0.110   3826.6   1.240   0.000   2672.1   1.421   0.000   3063.7   1.576   0.184   3448.5   1.044   0.100   3833.3   1.241   0.000   2672.1   1.421   0.000   3070.4   1.579   0.198   3455.2   1.049   0.091   3840.1   1.242   0.000   2678.8   1.434   0.002   3097.7   1.576   0.243   3462.0   1.054   0.082   3846.8   1.244   0.000   3070.4   1.579   0.198   3455.2   1.049   0.091   3840.1   1.242   0.000   2692.3   1.429   0.000   3077.2   1.576   0.243   3462.0   1.054   0.082   3846.8   1.244   0.000   3077.2   1.576   0.243   3462.0   1.054   0.082   3867.1   1.246   0.000   2793.6   1.440   0.004   3117.7   1.555   0.301   3502.5   1.086   0.034   3887.3   1.246   0.000   2793.6   1.440   0.004   3117.7   1.555   0.301   3502.5   1.086   0.034   3887.3   1.246   0.000   2732.8   1.446   0.004   3117.7   1.555   0.301   3502.5   1.086   0.034   3887.3   1.246   0.												
2577.6												
2584.3												
2591.1												
2597.8												
2604.6												
2611.3												
2618.1												
2624.8											1.230	
2631.6												
2638.3												
2645.1												
2651.8												
2658.6         1.417         0.000         3043.4         1.567         0.144         3428.2         1.030         0.132         3813.1         1.238         0.000           2665.3         1.419         0.000         3050.2         1.571         0.157         3435.0         1.034         0.121         3819.8         1.239         0.000           2678.8         1.424         0.000         3063.7         1.578         0.184         3448.5         1.044         0.100         3833.3         1.241         0.000           2685.6         1.426         0.000         3070.4         1.579         0.198         3455.2         1.049         0.091         3840.1         1.242         0.000           2692.3         1.429         0.000         3077.2         1.579         0.213         3462.0         1.054         0.082         3846.8         1.243         0.000           2699.1         1.431         0.001         3083.9         1.578         0.228         3462.0         1.054         0.082         3846.8         1.244         0.000           2712.6         1.437         0.002         3097.4         1.572         0.258         3482.2         1.068         0.057         3867.1												
2672.1         1.421         0.000         3056.9         1.575         0.170         3441.7         1.039         0.110         3826.6         1.240         0.000           2678.8         1.424         0.000         3063.7         1.578         0.184         3448.5         1.044         0.100         3833.3         1.241         0.000           2695.6         1.426         0.000         3077.2         1.579         0.198         3455.2         1.049         0.091         3840.1         1.242         0.000           2699.1         1.431         0.001         3083.9         1.578         0.228         3468.7         1.059         0.074         3853.6         1.244         0.000           2705.8         1.434         0.002         3090.7         1.576         0.243         3475.5         1.063         0.065         3860.3         1.245         0.000           2719.3         1.440         0.002         3097.4         1.572         0.258         3482.2         1.068         0.057         3867.1         1.246         0.000           2719.3         1.440         0.003         3104.2         1.567         0.272         3489.0         1.074         0.049         3873.8	2658.6	1.417				0.144			0.132	3813.1		
2678.8         1.424         0.000         3063.7         1.578         0.184         3448.5         1.044         0.100         3833.3         1.241         0.000           2685.6         1.426         0.000         3070.4         1.579         0.198         3455.2         1.049         0.091         3840.1         1.242         0.000           2692.3         1.429         0.000         3077.2         1.579         0.213         3462.0         1.054         0.082         3846.8         1.243         0.000           2699.1         1.431         0.001         3083.9         1.578         0.228         3468.7         1.059         0.074         3853.6         1.244         0.000           2705.8         1.434         0.002         3097.4         1.572         0.258         3482.2         1.063         0.065         3860.3         1.245         0.000           2719.6         1.437         0.002         3097.4         1.572         0.258         3482.2         1.068         0.057         3867.1         1.246         0.000           2719.3         1.440         0.003         3104.2         1.567         0.272         3489.0         1.074         0.049         3873.8												
2685.6         1.426         0.000         3070.4         1.579         0.198         3455.2         1.049         0.091         3840.1         1.242         0.000           2692.3         1.429         0.000         3077.2         1.579         0.213         3462.0         1.054         0.082         3846.8         1.243         0.000           2699.1         1.431         0.001         3083.9         1.578         0.228         3468.7         1.059         0.065         3860.3         1.244         0.000           2712.6         1.437         0.002         3097.4         1.572         0.258         3482.2         1.068         0.057         3867.1         1.246         0.000           2719.3         1.440         0.003         3104.2         1.567         0.272         3489.0         1.074         0.049         3873.8         1.246         0.000           27726.1         1.443         0.004         3110.9         1.562         0.287         3495.7         1.080         0.041         3880.6         1.247         0.000           2732.8         1.446         0.004         3117.7         1.555         0.301         3502.5         1.086         0.034         3887.3												
2692.3         1.429         0.000         3077.2         1.579         0.213         3462.0         1.054         0.082         3846.8         1.243         0.000           2699.1         1.431         0.001         3083.9         1.578         0.228         3468.7         1.059         0.074         3853.6         1.244         0.000           2705.8         1.434         0.002         3090.7         1.576         0.243         3475.5         1.063         0.065         3860.3         1.245         0.000           2712.6         1.437         0.002         3097.4         1.572         0.258         3482.2         1.068         0.057         3867.1         1.246         0.000           2719.3         1.440         0.003         3104.2         1.567         0.272         3489.0         1.074         0.049         3873.8         1.246         0.000           2726.1         1.443         0.004         3110.9         1.562         0.287         3495.7         1.080         0.041         3880.6         1.247         0.000           2732.8         1.446         0.004         3117.7         1.555         0.301         3502.5         1.086         0.034         3887.3												
2699.1												
2705.8												
2712.6												
2719.3												
2726.1         1.443         0.004         3110.9         1.562         0.287         3495.7         1.080         0.041         3880.6         1.247         0.000           2732.8         1.446         0.004         3117.7         1.555         0.301         3502.5         1.086         0.034         3887.3         1.248         0.000           2739.6         1.450         0.005         3124.4         1.547         0.315         3509.3         1.093         0.027         3894.1         1.249         0.000           2746.4         1.453         0.007         3131.2         1.539         0.329         3516.0         1.100         0.022         3900.8         1.250         0.000           2759.9         1.462         0.010         3144.7         1.519         0.354         3529.5         1.115         0.012         3914.3         1.251         0.000           2766.6         1.467         0.012         3151.4         1.509         0.366         3536.3         1.123         0.009         3921.1         1.252         0.000           2778.1         1.476         0.019         3164.9         1.485         0.388         3549.8         1.136         0.005         3934.6												
2732.8         1.446         0.004         3117.7         1.555         0.301         3502.5         1.086         0.034         3887.3         1.248         0.000           2739.6         1.450         0.005         3124.4         1.547         0.315         3509.3         1.093         0.027         3894.1         1.249         0.000           2746.4         1.453         0.007         3131.2         1.539         0.329         3516.0         1.100         0.022         3900.8         1.250         0.000           2753.1         1.457         0.008         3137.9         1.530         0.342         3522.8         1.108         0.017         3907.6         1.250         0.000           2759.9         1.462         0.010         3144.7         1.519         0.354         3529.5         1.115         0.012         3914.3         1.251         0.000           2766.6         1.467         0.012         3151.4         1.509         0.366         3536.3         1.123         0.009         3921.1         1.252         0.000           2778.1         1.471         0.016         3158.2         1.497         0.377         3543.0         1.129         0.007         3927.8												
2739.6         1.450         0.005         3124.4         1.547         0.315         3509.3         1.093         0.027         3894.1         1.249         0.000           2746.4         1.453         0.007         3131.2         1.539         0.329         3516.0         1.100         0.022         3900.8         1.250         0.000           2753.1         1.457         0.008         3137.9         1.530         0.342         3522.8         1.108         0.017         3907.6         1.250         0.000           2759.9         1.462         0.010         3144.7         1.519         0.354         3529.5         1.115         0.012         3914.3         1.251         0.000           2766.6         1.467         0.012         3151.4         1.509         0.366         3536.3         1.123         0.009         3921.1         1.252         0.000           2773.4         1.471         0.016         3158.2         1.497         0.377         3543.0         1.129         0.007         3927.8         1.253         0.000           2780.1         1.476         0.019         3164.9         1.485         0.388         3549.8         1.136         0.005         3941.6												
2746.4         1.453         0.007         3131.2         1.539         0.329         3516.0         1.100         0.022         3900.8         1.250         0.000           2753.1         1.457         0.008         3137.9         1.530         0.342         3522.8         1.108         0.017         3907.6         1.250         0.000           2759.9         1.462         0.010         3144.7         1.519         0.354         3529.5         1.115         0.012         3914.3         1.251         0.000           2766.6         1.467         0.012         3151.4         1.509         0.366         3536.3         1.123         0.009         3921.1         1.252         0.000           2773.4         1.471         0.016         3158.2         1.497         0.377         3543.0         1.129         0.007         3927.8         1.253         0.000           2780.1         1.476         0.019         3164.9         1.485         0.388         3549.8         1.136         0.005         3934.6         1.253         0.000           2786.9         1.480         0.025         3171.7         1.472         0.398         3556.5         1.142         0.003         3941.3												
2753.1       1.457       0.008       3137.9       1.530       0.342       3522.8       1.108       0.017       3907.6       1.250       0.000         2759.9       1.462       0.010       3144.7       1.519       0.354       3529.5       1.115       0.012       3914.3       1.251       0.000         2766.6       1.467       0.012       3151.4       1.509       0.366       3536.3       1.123       0.009       3921.1       1.252       0.000         2773.4       1.471       0.016       3158.2       1.497       0.377       3543.0       1.129       0.007       3927.8       1.253       0.000         2780.1       1.476       0.019       3164.9       1.485       0.388       3549.8       1.136       0.005       3934.6       1.253       0.000         2786.9       1.480       0.025       3171.7       1.472       0.398       3556.5       1.142       0.003       3941.3       1.254       0.000         2793.6       1.484       0.031       3178.4       1.459       0.408       3563.3       1.148       0.002       3948.1       1.255       0.000												
2759.9     1.462     0.010     3144.7     1.519     0.354     3529.5     1.115     0.012     3914.3     1.251     0.000       2766.6     1.467     0.012     3151.4     1.509     0.366     3536.3     1.123     0.009     3921.1     1.252     0.000       2773.4     1.471     0.016     3158.2     1.497     0.377     3543.0     1.129     0.007     3927.8     1.253     0.000       2780.1     1.476     0.019     3164.9     1.485     0.388     3549.8     1.136     0.005     3934.6     1.253     0.000       2786.9     1.480     0.025     3171.7     1.472     0.398     3556.5     1.142     0.003     3941.3     1.254     0.000       2793.6     1.484     0.031     3178.4     1.459     0.408     3563.3     1.148     0.002     3948.1     1.255     0.000												
2766.6     1.467     0.012     3151.4     1.509     0.366     3536.3     1.123     0.009     3921.1     1.252     0.000       2773.4     1.471     0.016     3158.2     1.497     0.377     3543.0     1.129     0.007     3927.8     1.253     0.000       2780.1     1.476     0.019     3164.9     1.485     0.388     3549.8     1.136     0.005     3934.6     1.253     0.000       2786.9     1.480     0.025     3171.7     1.472     0.398     3556.5     1.142     0.003     3941.3     1.254     0.000       2793.6     1.484     0.031     3178.4     1.459     0.408     3563.3     1.148     0.002     3948.1     1.255     0.000												
2780.1     1.476     0.019     3164.9     1.485     0.388     3549.8     1.136     0.005     3934.6     1.253     0.000       2786.9     1.480     0.025     3171.7     1.472     0.398     3556.5     1.142     0.003     3941.3     1.254     0.000       2793.6     1.484     0.031     3178.4     1.459     0.408     3563.3     1.148     0.002     3948.1     1.255     0.000		1.467		3151.4				1.123				
2786.9												0.000
2793.6 1.484 0.031 3178.4 1.459 0.408 3563.3 1.148 0.002 3948.1 1.255 0.000												0.000
1 79/YN A 1 A99 (1 (1792   2195 ) 1 AA5 (1 A17   2570 N 1 152 (1 A00   205A ) 1 155 (1 A00 )												
	2800.4	1.488	0.038	3185.2	1.445	0.417	3570.0	1.153	0.000	3954.8	1.255	0.000
2807.1 1.490 0.046 3191.9 1.431 0.427 3576.8 1.158 0.000 3961.6 1.256 0.000												
2813.9 1.491 0.055 3198.7 1.415 0.434 3583.5 1.163 0.000 3968.3 1.257 0.000												
2820.6 1.491 0.067 3205.4 1.398 0.442 3590.3 1.167 0.000 3975.1 1.257 0.000												
2827.4     1.481     0.085     3212.2     1.380     0.450     3597.0     1.171     0.000     3981.8     1.258     0.000       2834.1     1.457     0.088     3218.9     1.362     0.455     3603.8     1.175     0.000     3988.6     1.258     0.000												
2840.9   1.443   0.071   3225.7   1.342   0.460   3610.5   1.179   0.000   3995.3   1.258   0.000   2847.6   1.447   0.056   3232.4   1.322   0.463   3617.3   1.182   0.000										3773.3	1.238	0.000
2854.4 1.454 0.051 3239.2 1.302 0.464 3624.0 1.186 0.000												
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V (cm ⁻¹ )  53.0  53.0  55.9  56.9  66.5  66.5  72.3  72.3  72.3  72.3  72.3  72.3  72.3  73.1  88.1  88.1  88.1  88.1  88.1  88.1  88.3  98.4  98.5  98.5  98.5  98.6	95.5 97.4 99.3 101.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100
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v (cm ⁻¹ )  2128.7  2132.5  2132.5  2134.4  2136.3  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2144.0  2153.4  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3  2163.3	2228.9 2234.7 2234.7 2234.7 2235.1 2257.8 2257.8 2269.4 2281.0 2286.8 2286.8 2286.8 2286.8 2286.8 2286.8 2386.8 2396.1 2306.9
K	0.0003
	1.354 1.355 1.355 1.357 1.357 1.358 1.358 1.358 1.358 1.359 1.359 1.359
v (cm ⁻¹ ) 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 183.7 193.8 1917.4 192.0 193.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7 195.7	2079,4 2085,2 2091,0 2096,8 2101,6 2103,5 2107,4 2107,4 2111,2 2111,2 2111,2 2111,2 2115,1 2115,0 2120,9 2120,9 2120,9
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V (Cm ⁻¹ ) 1904.9 1500.7 1506.5 1512.3 1512.3 1512.3 1512.3 1523.9 1523.9 1523.9 1523.9 1523.9 1523.9 1523.9 1525.8 1525.8 1525.8 1525.8 1525.9 1604.9 1616.5 1625.3 1625.3 1625.3 1625.3 1626.8 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0 1627.0	1738.0 1743.8 1743.8 1743.8 1755.3 1766.9 1778.5 1778.5 1778.5 1790.1 1790.1 1795.9 1807.4 1813.2 1819.0

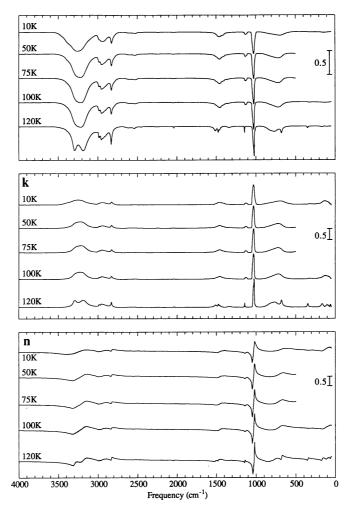


FIG. 4.—The 4000 to 50 cm⁻¹ transmission spectra and optical constants (n and k) of a pure CH₃OH ice at temperatures of 10, 50, 75, 100, and 120 K. The original ice was deposited at 10 K.

-		× 4 %
*	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000	0.00
=	1284 1284 1284 1284 1284 1284 1284 1284	1.268
v (cm ⁻¹ )	1183.4 1185.3 1185.3 1185.3 1185.3 1187.3 1187.3 1187.3 1187.3 1187.3 1187.3 1187.3 1187.3 1228.7 1228.7 1228.7 1228.7 1228.7 1228.7 1228.7 1228.7 1228.7 1228.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 1239.7 12	14/7.6 1483.4 1489.2
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v (cm ⁻¹ )	1009.6 1071.5 1077.3 1077.3 1077.3 1077.3 1088.9 1098.0 1098.0 1098.7 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1098.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 1099.5 10	1179.6
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v (cm ⁻¹ )	164.9 166.9 166.9 170.7 170.7 170.6 170.7 170.6 170.7 170.7 170.7 182.3 182.3 184.2 186.1 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3 187.3	274.9 276.8 276.8
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F	22222224122222424222242422222222222222	
v (cm ⁻¹ )	51.1 53.0 55.0 56.8 66.8 66.5 66.5 66.5 66.5 66.5 66.5	161.1 161.1 163.0
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F	1.278	1.279	1.280	1 281	1.282	1.282	1.283	1.283	1.264	1 285	1.286	1.286	1.287	1.287	1.287	1.288	1.288	1.289	1.289	1.290	067.1	167.1	1.291	1.291	1.292	1.292	1 203	1 203	1 203	1.293	1.294	1.294	1.295	1.295	1.295	1.296	1.296	1.290	1 207	1 297	1.297	1.298	1.298	1.298	2000	1.299	1.299	1.299	1.299	1.299			
v (cm ⁻¹ )	3685.3	3691.1	3696.8	3708.4	3714.2	3720.0	3725.8	3731.6	37.4.4	3748.0	3754.7	3760.5	3766.3	3772.1	3777.9	3783.6	3789.4	3795.2	3801.0	3806.8	3812.0	2010.4	3824.2	3829.9	3835.7	2041.3	3853 1	3858.0	3864 7	3870.4	3876.2	3882.0	3887.8	3893.6	3899.4	3905.2	3911.0	3910.7	3028 3	3934 1	3939.9	3945.7	3951.5	3957.3	3963.0	3974.6	3980.4	3986.2	3992.0	3771.0			
×	0.138	0.132	0.126	0.121	0.112	0.107	0.102	0.095	0.000	0.082	0.069	0.062	0.056	0.050	0.045	0.0	0.038	0.035	0.032	0.028	0.024	0.021	0.01/	0.014	0.012	0.00	0.00	30.0	0.00	0.003	0.002	0.002	0.00	0.000	0.001	0000	0.000	3 6	300	0000	0000	0.000	0.000	0.000		0000	0.000	0.000	0000	0000	0.000	0.000	3,75
   	1.192	1.192	1.191	1.105	1.198	1.195	1.193	Z 2	1.162	1 185	1.188	1.190	1.192	1.190	1.193	1.196	1.201	1.203	1.206	1.208	017.1	117.1	1.214	1.21	1.221	1,224	1.228	1.23.1	1 237	1.240	1.242	1.245	1.247	1.249	1.252	1.253	1.255	1.237	1 260	1 261	1.263	1.264	1.266	1.267	1.268	1.270	1.271	1.272	1.273	1.275	1.276	1.277	1.4/0
v (cm ⁻¹ )	3343.8	3349.6	3355.4	3367.0	3372.8	3378.6	3384.4	3390.1	3401.7	3407.5	3413.3	3419.1	3424.9	3430.6	3436.4	3442.2	3448.0	3453.8	3459.6	3465.4	24/1.2	24/0.9	3482./	3488.3	3494.3	2505.0	35117	3517.7	3503.0	3529.0	3534.8	3540.6	3546.4	3552.2	3558.0	3563.7	3569.5	2501.1	3586.9	3592.7	3598.5	3604.3	3610.0	3615.8	3621.0	3633.2	3639.0	3644.8	3650.5	3662.1	3667.9	3673.7	2017.2
×	0.045	0.036	0.033	0.033	0.035	0.037	0.039	0.042	0.05	0.05	0.054	0.057	0.060	0.064	0.068	0.072	0.076	0.081	0.086	0.092	0.03	0.10	0.112	0.119	0.127	0.130	0.145	0.15	0.103	0.179	0.187	0.193	0.200	0.205	0.210	0.214	0.217	0.219	0.220	0.222	0.222	0.221	0.219	0.218	0.214	0.205	0.199	0.192	0.186	0.170	0.161	0.153	25.7
-	1 330	1.341	1.352	1360	1.375	1.378	1.383	1.388	1.392	1.50	404	1.403	1.406	1.408	1.413	1.416	1.422	1.425	1.427	1.422	1.423	1.424	1.430	1.430	1.435	1.455	1.455	1.410	1.414	1.410	1.403	1.403	1.395	1.371	1.362	1.352	1.351	1.741	1331	1321	1.294	1.284	1.282	1.273	1.263	1.252	1.228	1.220	1.213	1.214	1.211	1.208	1.200
v (cm ⁻¹ )	3002.4	3008.2	3014.0	3025.6	3031.4	3037.1	3042.9	3048.7	3060.2	3066 1	3071.9	3077.6	3083.4	3089.2	3095.0	3100.8	3106.6	3112.4	3118.2	3123.9	3125 5	5155.5	3141.3	3147.1	3152.9	2164.5	3170.2	3176.0	3181.8	3187.6	3193.4	3199.2	3205.0	3210.7	3216.5	3222.3	3228.1	2720.7	3245.5	3251.3	3257.0	3262.8	3268.6	3274.4	3280.2	3291.8	3297.5	3303.3	3309.1	3320.7	3326.5	3332.3	1.00.00
۳.	0.00	0.000	00.0	38	0000	0.000	0.001	0.00		0000	0.003	0.00	0.005	9000	0.008	0.011	0.014	0.018	0.023	0.028	0.030	750.0	0.030	0.00	0.0 /4	0.093	0.130		0.0	0900	0.053	0.051	0.053	0.056	0.058	0.061	0.066	0.0.0	0.07	0.000	0.096	0.099	0.102	20.0	2 5	25.0	0.104	0.100	0.092	0.084	0.081	0.071	0.00
u	1.377	1.379	1.381	1 385	1.386	1.389	1.391	1.393	1 308	1400	1.403	1.406	1.410	1.413	1.417	1.421	1.426	1.429	1.433	1.436	1.1	1.4	1.44/	1.451	1.453	1.420	1.429	1364	1355	1.366	1.378	1.383	1.389	1.394	1.399	1.403	1.409	1.410	1.402	1 397	1.392	1.391	1.385	1.383	136/	1.359	1.351	1.347	1.341	34 5	1.336	1.324	F2C:1
v (cm ⁻¹ )	2661.0	2666.8	2672.6	26/84 1	2689.9	2695.7	2701.5	2707.3	2718.0	2724.6	2730.4	2736.2	2742.0	2747.8	2753.6	2759.4	2765.2	2770.9	71/6.7	2787.5	2704.1	2700.0	6.6617	7.0027	2811.5	77.707	2828.0	2834 6	2840.4	2846.2	2852.0	2857.7	2863.5	2869.3	2875.1	2880.9	7886.7	2692.3	2904.0	2909.8	2915.6	2921.4	2927.2	2933.0	2938.8	2950.3	2956.1	2961.9	2967.7	2979.3	2985.1	2990.8	4770.0
×	0.00	0.001	0.00	38	0.000	0.000	0.00	9.6	300	0000	0.001	0.00	0.001	0.001	0.002	0.00	0.002	0.003	0.003	0.003	36	36	0.00	2000	0.00	38	8 8	90.0	800	0.010	0.012	0.013	0.014	0.014	0.014	0.013	0.012	0.0	0.010	0.010	0.010	0.010	0.010	0.011	0.01	0.00	0.00	0.008	0.007	0.00	0.00	0.003	70000
_ c	1.354	1.355	1.355	1 355	1.356	1.357	1.357	1.358	1 358	1.359	1.360	1.360	1.361	1.362	1.362	1.363	1.363	1.363	4.5	1.304	1 365	1 266	1 366	1.300	1.367	1 370	1.371	1 373	1.374	1.373	1.372	1.371	1.370	1.369	1.368	1.367	1.36/	1.300	1.367	1.368	1.368	1.370	1.370	1.370	1 369	1.369	1.369	1.370	1.370	1.370	1.372	1.373	
v (cm ⁻¹ )	2319.6	2325.4	2331.1	2342.7	2348.5	2354.3	2360.1	2365.9	2377.4	2383.2	2389.0	2394.8	2400.6	2406.4	2412.2	2417.9	2423.7	2429.5	2433.3	2441.1	24527	2452.7	2456.5	2,404.2	2470.0	24816	2487.4	2493.2	2499.0	2504.7	2510.5	2516.3	2522.1	2527.9	2533.7	2539.5	2545.3	2556.8	2562.6	2568.4	2574.2	2580.0	2585.8	2591.6	2603	2608.9	2614.7	2620.5	2626.3	2637.8	2643.6	2649.4	-
k	0.003	0.003	0.002	0000	0.002	0.002	0.002	0.002	0.00	000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.00	0.001	300	36	0.0	0.00	0.00	0.00	0.00	0.00	000	0.00	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.00	0.003	0.0	0.004	0.00	0.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40 40.00 40 40.00 40 40 40 40 40 40 40 40 40 40 40 40 4	0.003	0.00	0.002	0.002	0.001	0.00	0.001	0.001	0.00	,
u	1.340	1.340	1.340	1 340	1.340	1.340	1.34	4. 5.	132	1.341	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1.342	545.	243	1.344	244	1345	1.245	1345	1 346	1.346	1.346	1.346	1.347	1.347	1.348	1.348	1.348	1.349	1.349	1.350	1 351	1.351	1.350	1.350	1.350	1.350	1.349	1350	1.350	1.351	1.351	1.351		1.353	1.353	
v (cm ⁻¹ )	2059.2	2061.1	2063.0	5066 9	2068.8	2070.7	2072.7	2074.6	2078.4	2080.4	2082.3	2084.2	2086.2	2088.1	2090.0	2092.0	2093.9	2095.8	7.000	2105.5	2111.2	2111.2	2122.8	2122.0	2134 4	2140.2	2146.0	2151.8	2157.5	2163.3	2169.1	2174.9	2180.7	2186.5	2192.3	2198.0	2203.8	2215.4	2221.2	2227.0	2232.8	2238.6	2244.3	2250.1	2261.7	2267.5	2273.3	2279.1	2284.8	2296.4	2302.2	2308.0	
<b>K</b>	0000	0.000	000		0.00	0.00	000	38	800	000	0.000	0.000	0.000	0.000	0.00	0.000	000	38	3 8	38	88.0	888		38	36	100	0.00	0.00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.00	90.0	0.00	0.004	0.004	0.00	90.0	9 5	900	0.005	0.0	9.00	9.0	88	0.00	0.00	
F	1.330	1.331	1.331	1 332	1.332	1.333	1.333	1.334	1,334	1.334	1.335	1.336	1.336	1.336	1.336	1.337	1.337	1.33/	1.338	1.338	1 330	1 330	1 330	1 240	340	13.	1341	1.342	1.341	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1343	1 343	1.343	1.342	1.342	1.342	1.342	1.341	134	1.341	1.341	1.341	1.340	1.340	1.340	1.340	
v (cm ⁻¹ )	1836.4	1842.2	1847.9	1859 5	1865.3	1871.1	1876.9	1882./	1894.2	1900.0	1905.8	1911.6	1917.4	1923.2	1929.0	1934.7	1940.5	1940.3	1932.1	1957.9	1960 5	1975 3	1981	1986 8	1997 6	1998.4	2001.3	2003.2	2005.1	2007.1	2009.0	2010.9	2012.9	2014.8	2016.7	2018.7	2020.0	2024.4	2026.4	2028.3	2030.2	2032.2	2034.1	2036.0	2039.9	2041.8	2043.7	2045.7	2047.6	2051.4	2053.4	2055.3	
ᅪ	0.058	0.049	0.040	0.026	0.022	0.019	0.016	0.015	0.013	0.013	0.012	0.012	0.011	0.010	0.010	0.003	0.008	0.00	200	2000	0000	0000	0.00	0.00	2000	0.005	0.00	0.00	0.00	0.003	0.003	0.003	0.003	0.002	0.002	7007	0.007	0000	0.001	0.001	0.001	0.001	0.001	0.00	0.001	0.001	0.001	0.001	000	0.00	0.000	0.000	
l	1.261	1.261	452.1	1.271	1.277	1.281	1.283	1 280	1.292	1.294	1.296	1.298	1.299	1.300	1.300	1.302	1.303	1.304	1.300	1.307	1.308	1300	1 310	1 310	1.312	1.313	1.314	1.314	1.315	1.316	1.317	1.317	1.318	1.319	1.319	1.320	1.321	1.322	1.322	1.323	1.324	1.324	1.325	1 326	1.326	1.327	1.327	1.328	1.327	1.328	1.329	1.330	
v (cm ⁻¹ )	1494.9	1500.7	1506.5	1518.1	1523.9	1529.7	1535.4	1547.0	1552.8	1558.6	1564.4	1570.2	1576.0	1581.7	1587.5	1595.3	1599.1	1616.9	1616.5	1622.3	1628.0	1633.8	1639.6	1645.4	1651.2	1657.0	1662.8	1668.5	1674.3	1680.1	1685.9	1691.7	1697.5	1703.3	1,09.1	1720.6	1726.4	1732.2	1738.0	1743.8	1749.6	1755.3	1.761.1	17777	1778.5	1784.3	1790.1	1795.9	1801.0	1813.2	1819.0	1824.8	

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TABLE 4B—Continued

V(cm ⁻¹ )						LL 4D-						
2646.0   1.376   0.004   2987.5   1.339   0.084   3328.9   1.128   0.130   3670.3   1.276   0.000   2657.6   1.377   0.002   2993.3   1.331   0.009   3334.7   1.131   0.116   3681.9   1.277   0.000   2657.6   1.381   0.001   3004.8   1.346   0.039   3340.5   1.135   0.104   3681.9   1.277   0.000   2657.5   1.383   0.000   3004.8   1.345   0.033   3346.3   1.140   0.093   3687.7   1.278   0.000   2658.8   1.388   0.000   3016.6   1.357   0.033   3352.0   1.145   0.084   3693.5   1.279   0.000   2680.8   1.388   0.000   3022.2   1.376   0.033   3357.8   1.150   0.077   3699.3   1.280   0.000   2692.3   1.392   0.000   3033.8   1.390   0.035   3355.8   1.155   0.070   3705.0   1.280   0.000   2692.3   1.392   0.000   3033.8   1.390   0.035   3352.0   1.66   0.056   3710.8   1.281   0.000   2698.1   1.394   0.000   3034.8   1.306   0.036   3381.0   1.66   0.056   3722.4   1.282   0.000   2703.9   1.396   0.000   3045.3   1.402   0.039   3386.8   1.170   0.051   3728.2   1.282   0.000   2707.7   1.399   0.001   3051.1   1.408   0.041   3392.6   1.173   0.046   3734.0   1.283   0.000   2715.5   1.401   0.001   3065.9   1.413   0.044   3398.3   1.176   0.041   3739.8   1.283   0.000   2721.3   1.404   0.002   3062.7   1.419   0.046   3404.1   1.179   0.036   3745.5   1.284   0.000   2733.8   1.410   0.003   3074.3   1.430   0.053   3415.7   1.188   0.028   3751.3   1.284   0.000   2734.4   1.416   0.003   3074.3   1.430   0.053   3415.7   1.188   0.028   3751.3   1.284   0.000   2734.4   1.416   0.003   3081.5   1.435   0.007   3433.1   1.200   0.019   3774.5   1.285   0.000   2761.6   1.434   0.009   3097.4   1.455   0.073   3433.8   1.200   0.019   3774.5   1.286   0.000   2761.6   1.447   0.067   3433.1   1.200   0.019   3774.5   1.286   0.000   2761.6   1.447   0.066   3137.9   1.482   0.044   3404.1   1.179   0.036   3762.9   1.285   0.000   3097.4   1.455   0.073   3435.8   1.200   0.001   3786.1   1.287   0.000   3097.4   1.455   0.073   3435.8   1.200   0.001   3788.6   1.200   0.000   3097.4   1.455   0.07												
2651.8   1.377   0.002   2993.3   1.331   0.069   3334.7   1.131   0.116   3676.1   1.277   0.000   2663.4   1.381   0.001   3004.8   1.346   0.039   3346.5   1.155   0.104   3681.9   1.277   0.000   2663.4   1.381   0.001   3004.8   1.346   0.039   3346.5   1.155   0.104   3693.5   1.279   0.000   2675.0   1.385   0.000   3010.6   1.357   0.034   3352.0   1.145   0.084   3693.5   1.279   0.000   2680.8   1.388   0.000   3022.2   1.376   0.033   3352.0   1.155   0.007   3699.3   1.280   0.000   2680.8   1.388   0.000   3022.2   1.376   0.033   3352.0   1.155   0.077   3699.3   1.280   0.000   2682.3   1.392   0.000   3038.0   1.383   0.034   3368.4   1.160   0.066   3710.8   1.281   0.000   2693.1   3.194   0.000   3039.6   1.383   0.034   3381.0   1.166   0.056   3712.4   1.282   0.000   2703.9   1.396   0.000   3045.3   1.402   0.039   3388.0   1.170   0.051   3728.2   1.282   0.000   2709.7   1.399   0.001   3051.1   1.408   0.041   3392.6   1.173   0.046   3734.0   1.283   0.000   2715.5   1.401   0.001   3056.9   1.413   0.044   3398.3   1.176   0.041   3739.8   1.283   0.000   27271.3   1.404   0.002   3062.7   1.419   0.046   3398.3   1.176   0.041   3739.8   1.284   0.000   27271.1   1.406   0.003   3068.5   1.424   0.049   3409.9   1.183   0.032   3751.3   1.284   0.000   2733.8   1.140   0.003   3068.5   1.424   0.049   3409.9   1.183   0.032   3751.3   1.284   0.000   2734.4   1.416   0.005   3055.8   1.441   0.062   3433.1   1.200   0.019   3774.5   1.286   0.000   2750.0   1.420   0.007   3091.6   1.447   0.067   3433.1   1.200   0.019   3774.5   1.286   0.000   2750.0   1.424   0.009   3097.4   1.445   0.005   3433.1   1.200   0.019   3774.5   1.286   0.000   2750.0   1.448   0.013   3109.0   1.464   0.088   3450.4   1.210   0.013   3379.8   1.287   0.000   2761.6   1.433   0.013   3109.0   1.464   0.088   3450.4   1.210   0.013   3379.8   1.287   0.000   2761.6   1.435   0.003   3137.9   1.488   0.000   3838.4   1.200   0.003   3834.9   1.200   0.003   3349.5   1.380   0.003   3337.9   1.380												
2657.6   1.379   0.002   2999.0   1.335   0.051   3340.5   1.155   0.104   3681.9   1.277   0.000   2669.2   1.381   0.001   3004.8   1.346   0.039   3346.3   1.145   0.094   3687.7   1.278   0.000   2669.2   1.383   0.000   3016.4   1.357   0.034   3357.8   1.150   0.077   3705.0   1.280   0.000   2680.8   1.388   0.000   3022.2   1.376   0.033   3357.8   1.150   0.077   3705.0   1.280   0.000   2686.6   1.389   0.000   3028.0   1.383   0.034   3369.4   1.160   0.066   3710.8   1.281   0.000   2698.1   1.394   0.000   3033.8   1.396   0.036   3387.2   1.165   0.056   3712.4   1.282   0.000   2703.9   1.396   0.000   3045.3   1.402   0.039   3386.8   1.170   0.051   3728.2   1.282   0.000   2709.7   1.396   0.000   3054.5   1.402   0.039   3386.8   1.170   0.051   3728.2   1.282   0.000   2707.7   1.399   0.001   3051.1   1.408   0.041   3392.6   1.173   0.046   3734.0   1.283   0.002   2711.5   1.401   0.001   3068.5   1.424   0.049   3404.1   1.179   0.036   3745.5   1.284   0.000   2727.1   1.406   0.003   3068.5   1.424   0.049   3404.1   1.179   0.036   3745.5   1.284   0.000   2733.8   1.410   0.003   3068.5   1.424   0.049   3404.1   1.179   0.036   3751.3   1.285   0.000   2736.6   1.413   0.004   3061.4   4.049   3404.1   1.179   0.036   3751.3   1.285   0.000   2736.6   1.434   0.005   3085.8   1.441   0.062   3427.3   1.196   0.021   3768.7   1.285   0.000   2736.6   1.434   0.009   3083.8   1.441   0.062   3427.3   1.196   0.021   3768.7   1.285   0.000   2756.0   1.424   0.009   3097.4   1.455   0.073   3438.8   1.200   0.019   3774.5   1.286   0.000   2756.0   1.444   0.009   3097.4   1.455   0.073   3438.8   1.200   0.019   3786.7   1.286   0.000   2756.0   1.444   0.009   3097.4   1.455   0.073   3438.8   1.200   0.019   3786.7   1.286   0.000   2756.0   1.444   0.009   3097.4   1.459   0.081   3444.6   1.207   0.015   3786.1   1.287   0.000   2756.0   1.444   0.009   3097.4   1.459   0.081   3444.6   1.207   0.015   3786.1   1.287   0.000   3097.4   1.450   0.000   3438.3   1.200   0.000   38												
2663.4   1.381   0.001   3004.8   1.346   0.039   3346.3   1.140   0.093   3687.7   1.278   0.000   2675.0   1.385   0.000   3010.6   1.357   0.034   3352.0   1.145   0.084   3693.5   1.279   0.000   2680.8   1.388   0.000   3022.2   1.376   0.033   3357.8   1.150   0.077   3699.3   1.280   0.000   2680.8   1.389   0.000   3028.0   1.383   0.034   3368.4   1.160   0.066   3710.8   1.281   0.000   2698.1   1.394   0.000   3039.6   1.396   0.035   3375.2   1.163   0.059   3716.6   1.281   0.000   2703.9   1.394   0.000   3039.6   1.396   0.036   3381.0   1.166   0.056   3710.8   1.281   0.000   2703.9   1.396   0.000   3045.3   1.402   0.039   3386.8   1.170   0.051   3728.2   1.282   0.000   2703.7   399   0.001   3051.1   1.408   0.041   3392.6   1.173   0.046   3734.0   1.283   0.002   2715.5   1.401   0.001   3056.9   1.413   0.044   3398.3   1.176   0.041   3739.8   1.283   0.002   2727.1   1.406   0.003   3062.7   1.419   0.046   3404.1   1.179   0.036   3745.5   1.284   0.000   27273.8   1.410   0.003   3085.8   1.440   0.002   3062.7   1.449   0.046   3404.1   1.179   0.036   3745.5   1.284   0.000   2732.8   1.410   0.003   3085.8   1.441   0.062   3427.3   1.188   0.028   3757.1   1.285   0.000   2732.8   1.410   0.003   3085.8   1.441   0.062   3427.3   1.196   0.021   3768.7   1.286   0.000   2756.0   1.424   0.000   3097.4   1.453   0.073   3438.8   1.204   0.016   3780.3   1.286   0.000   2756.0   1.424   0.000   3097.4   1.453   0.073   3438.8   1.204   0.016   3780.3   1.286   0.000   2776.1   1.429   0.011   3103.2   1.459   0.081   3444.6   1.001   3039.4   1.285   0.000   27773.4   1.488   0.019   3114.8   1.470   0.098   3450.4   1.210   0.013   3791.8   1.287   0.000   2776.5   1.448   0.009   3097.4   1.485   0.088   3450.4   1.210   0.013   3791.8   1.287   0.000   2776.5   1.448   0.009   3097.4   1.487   0.007   3438.8   1.200   0.001   3803.4   1.288   0.000   3.085.5   1.441   0.006   3.085.8   1.441   0.006   3.444   0.007   3.438.8   1.200   0.001   3.085.6   1.200   0.000   3.085.6												
2669.2         1.385         0.000         3010.6         1.357         0.034         3352.0         1.145         0.084         3693.5         1.279         0.000           2680.8         1.388         0.000         3022.2         1.376         0.033         3357.8         1.150         0.077         3705.0         1.280         0.000           2686.6         1.389         0.000         3028.0         1.383         0.034         3369.4         1.160         0.066         3710.8         1.281         0.000           2699.3         1.394         0.000         3034.6         1.396         0.036         3381.0         1.166         0.056         3722.4         1.282         0.000           2709.7         1.399         0.001         3051.1         1.408         0.041         3392.6         1.173         0.046         3734.0         1.283         0.000           2711.3         1.404         0.002         3062.7         1.419         0.046         3404.1         1.179         0.036         3735.5         1.128         0.000           2731.6         1.410         0.003         3068.5         1.424         0.049         3409.9         1.183         0.032         3735.1	2657.6		0.002									0.000
2675.0         1.385         0.000         3016.4         1.376         0.033         3357.8         1.155         0.077         3699.3         1.280         0.000           2686.6         1.389         0.000         3022.2         1.376         0.033         3353.6         1.155         0.070         3705.0         1.280         0.000           2698.1         1.394         0.000         3033.8         1.390         0.035         3375.2         1.163         0.059         3716.6         1.281         0.000           2703.9         1.396         0.000         3045.3         1.402         0.039         3386.8         1.170         0.051         3722.4         1.282         0.000           2715.5         1.401         0.001         3056.9         1.413         0.044         3398.8         1.173         0.046         3739.8         1.283         0.000           2727.1         1.406         0.003         3068.5         1.424         0.049         3409.9         1.183         0.032         3751.3         1.284         0.000           2738.6         1.410         0.003         3085.8         1.424         0.049         3402.1         1.188         0.028         3757.1												
2680.8         1.388         0.000         3022.2         1.376         0.033         3363.6         1.155         0.070         3705.0         1.280         0.000         2692.3         1.389         0.000         3033.8         1.390         0.035         3375.2         1.163         0.066         3712.8         1.281         0.000           2698.1         1.394         0.000         3033.8         1.390         0.035         3381.0         1.166         0.056         3712.4         1.281         0.000           2709.7         1.396         0.000         3045.3         1.402         0.039         3386.8         1.170         0.031         3734.0         1.282         0.000           2713.5         1.401         0.001         3056.1         1.408         0.041         3392.6         1.173         0.046         3744.1         1.404         3092         1.176         0.041         3734.0         1.283         0.000           2721.1         1.406         0.003         3074.3         1.430         0.053         3415.7         1.188         0.023         3751.1         1.285         0.000           2732.8         1.410         0.003         3045.5         1.284         0.049												
2686.6         1.389         0.000         3028.0         1.383         0.034         3369.4         1.163         0.095         3716.6         1.281         0.000           2698.1         1.394         0.000         3033.8         1.390         0.035         3381.0         1.163         0.099         3716.6         1.281         0.000           2703.7         1.396         0.000         3043.3         1.402         0.039         3386.8         1.170         0.001         3734.2         1.282         0.000           2715.5         1.401         0.001         3051.1         1.408         0.041         3392.6         1.173         0.046         3734.0         1.283         0.000           2727.1         1.406         0.003         3068.5         1.419         0.046         3404.1         1.179         0.036         3745.5         1.284         0.000           2732.8         1.410         0.003         3086.5         1.424         0.049         3409.9         1.183         0.022         3751.3         1.285         0.000           2732.8         1.413         0.004         3080.1         1.436         0.057         3421.5         1.182         0.021         3768.7												
2692.3         1.394         0.000         3033.8         1.396         0.036         3375.2         1.163         0.059         3716.6         1.281         0.000           2703.9         1.396         0.000         3039.6         1.396         0.306         3381.0         1.166         0.056         3722.4         1.282         0.000           2703.9         1.396         0.000         3045.3         1.402         0.039         3386.8         1.173         0.046         3734.0         1.282         0.000           2713.1         1.401         0.001         3056.9         1.413         0.044         3398.3         1.176         0.041         3739.8         1.283         0.000           2723.8         1.410         0.003         3074.3         1.430         0.063         3415.7         1.188         0.023         3751.3         1.284         0.000           2732.8         1.410         0.005         3085.8         1.441         0.062         3421.5         1.188         0.023         3757.1         1.285         0.000           2750.2         1.420         0.007         3045.3         3415.5         1.188         0.024         3762.7         1.286         0.000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
2698.1   1.394   0.000   3094.5   1.396   0.036   3381.0   1.166   0.056   3722.4   1.282   0.000   2709.7   1.399   0.001   3051.1   1.408   0.041   3392.6   1.173   0.046   3734.0   1.283   0.000   2707.1   1.404   0.002   3062.7   1.419   0.046   3404.1   1.179   0.036   3745.8   1.284   0.000   2727.1   1.406   0.003   3068.5   1.424   0.049   3404.1   1.179   0.036   3745.5   1.284   0.000   2727.1   1.406   0.003   3068.5   1.424   0.049   3404.1   1.179   0.036   3745.5   1.284   0.000   2732.8   1.410   0.003   3074.3   1.430   0.053   3415.7   1.188   0.032   3751.3   1.284   0.000   2738.6   1.413   0.004   3808.1   1.436   0.057   3421.5   1.192   0.024   3762.9   1.285   0.000   2734.4   1.416   0.005   3085.8   1.441   0.062   3427.3   1.196   0.021   3768.7   1.286   0.000   2756.0   1.424   0.009   3097.4   1.453   0.073   3438.8   1.204   0.016   3780.3   1.286   0.000   2761.8   1.429   0.011   3103.2   1.459   0.081   3444.6   1.207   0.015   3786.1   1.287   0.000   2767.6   1.433   0.015   3109.0   1.464   0.088   3450.4   1.210   0.013   3791.8   1.287   0.000   2779.1   1.442   0.025   3120.6   1.474   0.108   3452.0   1.213   0.011   3797.8   1.288   0.000   2784.9   1.446   0.031   3126.4   1.478   0.120   3467.8   1.220   0.009   3809.2   1.289   0.000   2799.7   1.448   0.033   3132.1   1.481   0.133   3473.6   1.222   0.007   3815.0   1.289   0.000   2808.1   1.455   0.063   3149.5   1.482   0.147   3494   1.225   0.006   3820.8   1.289   0.000   2808.1   1.457   0.064   3143.7   1.482   0.162   3485.1   1.228   0.000   3820.8   1.289   0.000   2883.9   1.457   0.098   3161.1   1.470   0.208   3502.5   1.236   0.003   3843.9   1.291   0.000   2883.9   1.457   0.004   3183.2   1.482   0.147   3494   1.225   0.006   3820.8   1.289   0.000   2884.6   1.359   0.053   3145.8   1.426   0.262   3352.5   1.350   0.003   3843.9   1.291   0.000   2885.4   1.350   0.053   315.8   1.396   0.279   3534.8   1.224   0.000   3874.1   1.291   0.000   2885.9   1.403   0.053   315.5   1.330   0.292												
2703.9   1.396   0.000   3045.3   1.402   0.039   3386.8   1.170   0.051   3738.2   1.282   0.000   2709.7   1.399   0.001   3056.9   1.413   0.044   3398.3   1.176   0.041   3739.8   1.283   0.000   2721.3   1.404   0.002   3062.7   1.419   0.046   3398.3   1.176   0.041   3739.8   1.283   0.000   2721.3   1.406   0.003   3068.5   1.424   0.049   3409.9   1.183   0.032   3751.3   1.284   0.000   2732.8   1.410   0.003   3074.3   1.430   0.053   3415.7   1.188   0.028   3757.1   1.285   0.000   2738.6   1.413   0.004   3080.1   1.436   0.057   3421.5   1.192   0.024   3762.9   1.285   0.000   2750.2   1.420   0.007   3091.6   1.447   0.067   3433.1   1.200   0.019   3774.5   1.286   0.000   2750.2   1.420   0.007   3091.6   1.447   0.067   3433.1   1.200   0.016   3780.3   1.286   0.000   2761.8   1.429   0.011   3103.2   1.459   0.081   3444.6   1.207   0.015   3786.1   1.287   0.000   2773.4   1.438   0.019   3114.8   1.470   0.098   3456.2   1.213   0.011   3791.6   1.288   0.000   2773.4   1.438   0.013   3126.4   1.478   0.120   3467.8   1.220   0.009   3803.4   1.288   0.000   2790.7   1.448   0.031   3126.4   1.478   0.120   3467.8   1.220   0.009   3803.4   1.288   0.000   2790.7   1.448   0.031   3126.4   1.478   0.120   3467.8   1.220   0.009   3803.4   1.288   0.000   2790.5   1.450   0.064   3137.9   1.482   0.147   3479.4   1.225   0.006   3820.8   1.289   0.000   2802.3   1.455   0.063   3143.7   1.482   0.162   3485.1   1.228   0.000   3803.4   1.289   0.000   2813.9   1.457   0.098   3151.3   1.476   0.192   3496.7   1.234   0.000   3843.9   1.291   0.000   2813.9   1.457   0.098   3151.3   1.476   0.192   3496.7   1.234   0.000   3843.9   1.291   0.000   2813.9   1.457   0.098   3151.3   1.476   0.192   3496.7   1.234   0.000   3843.9   1.291   0.000   2813.9   1.457   0.098   3151.3   1.470   0.208   3502.5   1.236   0.003   3834.9   1.291   0.000   2884.8   1.364   0.069   3181.2   1.440   0.251   3519.9   1.233   0.000   3843.9   1.291   0.000   2885.5   1.436   0.053   3153.3   1.476   0.												
2709.7   1.399   0.001   3051.1   1.408   0.041   3392.6   1.173   0.046   3734.0   1.283   0.000   2715.5   1.401   0.001   3056.9   1.413   0.044   3398.3   1.176   0.041   3739.8   1.283   0.000   2727.1   1.406   0.003   3068.5   1.424   0.049   3404.1   1.179   0.036   3745.5   1.284   0.000   2738.6   1.410   0.003   3074.3   1.430   0.053   3415.7   1.188   0.032   3751.3   1.284   0.000   2738.6   1.413   0.004   3800.1   1.436   0.057   3421.5   1.192   0.024   3762.9   1.285   0.000   2754.4   1.416   0.005   3085.8   1.441   0.062   3427.3   1.196   0.021   3768.7   1.286   0.000   2756.0   1.424   0.009   3097.4   1.453   0.073   3438.8   1.200   0.019   3774.5   1.286   0.000   2761.8   1.429   0.011   3103.2   1.459   0.081   3446.6   1.207   0.015   3786.1   1.287   0.000   2767.6   1.433   0.013   3104.8   1.470   0.098   3456.2   1.213   0.013   3791.8   1.287   0.000   2779.7   1.442   0.025   3120.6   1.474   0.108   3462.0   1.217   0.010   3803.4   1.288   0.000   2784.9   1.446   0.031   3126.4   1.478   0.120   3467.8   1.222   0.009   3809.2   1.289   0.000   2796.5   1.450   0.046   3137.9   1.482   0.167   3490.9   1.231   0.004   3822.4   1.289   0.000   2781.9   1.457   0.076   3155.3   1.476   0.192   3496.7   1.231   0.013   3831.1   1.291   0.000   2813.9   1.457   0.076   3155.3   1.476   0.192   3496.7   1.231   0.003   3831.1   1.291   0.000   2825.4   1.436   0.030   3149.5   1.450   0.223   3508.3   1.238   0.002   3849.7   1.291   0.000   2848.6   1.378   0.055   3190.6   1.410   0.225   3519.9   1.233   0.000   3884.4   1.290   0.000   3884.4   1.290   0.000   3881.1   1.291   0.000   2825.4   1.436   0.094   3172.6   1.452   0.288   3540.4   1.226   0.000   3884.6   1.290   0.000   2825.4   1.436   0.030   3149.5   1.480   0.023   3506.4   1.225   0.006   3849.7   1.291   0.000   2825.4   1.436   0.030   3149.5   1.480   0.023   3506.4   1.225   0.000   3884.6   1.290   0.000   2888.6   1.378   0.053   3195.5   1.330   0.293   3566.2   1.236   0.000   3949.7   1.291   0.												
2715.5         1.401         0.001         3056.9         1.413         0.044         3398.3         1.176         0.041         3739.8         1.283         0.000           2727.13         1.404         0.003         3068.5         1.424         0.049         3409.9         1.183         0.032         3751.3         1.284         0.000           2732.8         1.410         0.003         3074.3         1.430         0.057         3421.5         1.188         0.022         3757.1         1.285         0.000           2738.6         1.413         0.004         3080.1         1.436         0.057         3421.5         1.188         0.022         3757.1         1.285         0.000           2744.4         1.416         0.005         3085.8         1.441         0.062         3423.1         1.96         0.021         3768.7         1.286         0.000           2756.0         1.424         0.009         3097.4         1.453         0.073         3438.8         1.204         0.016         3788.1         1.286         0.000           2761.6         1.429         0.011         3103.2         1.453         0.083         3444.6         1.207         0.015         3786.1												
2721.3         1.406         0.002         3062.7         1.419         0.046         3404.1         1.179         0.036         3745.5         1.284         0.000           2732.8         1.410         0.003         3074.3         1.430         0.053         3415.7         1.188         0.028         3757.1         1.285         0.000           2738.6         1.413         0.005         3085.8         1.441         0.005         3085.8         1.441         0.062         3427.3         1.192         0.024         3762.9         1.285         0.000           2756.0         1.420         0.007         3091.6         1.447         0.062         3427.3         1.196         0.021         3768.7         1.286         0.000           2756.0         1.424         0.009         3097.4         1.453         0.073         3438.8         1.204         0.016         3780.3         1.286         0.000           2761.8         1.429         0.011         3102.6         1.449         0.081         3444.6         1.207         0.015         3786.1         1.287         0.000           2779.1         1.446         0.031         3126.4         1.474         0.088         3450.4												
2727.1         1.406         0.003         3068.5         1.424         0.049         3409.9         1.183         0.022         3751.3         1.284         0.000           2732.8         1.410         0.003         3074.3         1.430         0.053         3415.7         1.188         0.022         3757.1         1.285         0.000           2734.4         1.416         0.007         3091.6         1.447         0.067         3421.5         1.192         0.024         3762.9         1.285         0.000           2750.2         1.420         0.007         3091.6         1.447         0.067         3433.1         1.200         0.019         3774.5         1.286         0.000           2767.6         1.424         0.009         3097.4         1.453         0.073         3438.8         1.204         0.016         3780.3         1.286         0.000           2761.8         1.429         0.015         3109.0         1.464         0.088         3450.4         1.210         0.013         3791.8         1.287         0.000           2779.1         1.442         0.025         314.8         1.470         0.098         3450.2         1.213         0.011         3797.6												
2732.8         1.410         0.003         3074.3         1.430         0.053         3415.7         1.188         0.028         3757.1         1.285         0.000           2734.6         1.413         0.004         3080.1         1.436         0.057         3421.5         1.192         0.024         3762.7         1.286         0.000           2750.2         1.420         0.007         3091.6         1.447         0.067         3433.1         1.200         0.019         3774.5         1.286         0.000           2761.8         1.429         0.001         3103.2         1.459         0.081         3444.6         1.207         0.015         3786.1         1.286         0.000           2761.8         1.429         0.011         3103.2         1.459         0.081         3444.6         1.207         0.015         3786.1         1.287         0.000           2776.1         1.433         0.019         3114.8         1.470         0.098         3456.2         1.211         0.011         3797.6         1.288         0.000           2779.1         1.442         0.023         3126.4         1.474         0.108         3456.2         1.217         0.010         3803.4												0.000
2738.6   1.413   0.004   3080.1   1.436   0.057   3421.5   1.192   0.024   3762.9   1.285   0.000   2750.2   1.420   0.007   3091.6   1.447   0.067   3433.1   1.200   0.019   3774.5   1.286   0.000   2756.0   1.424   0.009   3097.4   1.453   0.073   3438.8   1.204   0.016   3780.3   1.286   0.000   2767.6   1.433   0.015   3109.0   1.464   0.088   3450.4   1.210   0.013   3791.8   1.287   0.000   2773.4   1.438   0.019   3114.8   1.470   0.098   3450.4   1.210   0.013   3791.8   1.287   0.000   2779.1   1.442   0.025   3120.6   1.474   0.108   3462.0   1.217   0.010   3803.4   1.288   0.000   2784.9   1.446   0.031   3126.4   1.478   0.120   3467.8   1.222   0.009   3809.2   1.289   0.000   2790.7   1.448   0.038   3132.1   1.481   0.133   3473.6   1.222   0.000   3820.8   1.289   0.000   2802.3   1.452   0.046   3137.9   1.482   0.147   3479.4   1.225   0.006   3820.8   1.289   0.000   2802.3   1.452   0.054   3143.7   1.482   0.162   3495.1   1.228   0.005   3826.8   1.290   0.000   2813.9   1.457   0.076   3155.3   1.476   0.192   3467.7   1.234   0.003   3838.1   1.291   0.000   2813.9   1.457   0.076   3155.3   1.476   0.192   3496.7   1.234   0.003   3849.7   1.291   0.000   2831.2   1.390   0.134   3172.6   1.452   0.238   3514.1   1.241   0.002   3855.5   1.292   0.001   2837.0   1.361   0.101   3178.4   1.440   0.251   3519.9   1.243   0.002   3861.3   1.292   0.001   2837.0   1.361   0.101   3178.4   1.440   0.251   3519.9   1.243   0.002   3861.3   1.292   0.001   2842.8   1.364   0.069   3184.2   1.426   0.262   3525.6   1.245   0.001   3867.1   1.293   0.000   2856.2   1.396   0.053   3201.6   1.381   0.285   3543.0   1.251   0.000   3872.9   1.292   0.000   2856.2   1.396   0.053   3201.6   1.381   0.285   3543.0   1.251   0.000   3872.9   1.292   0.000   2856.9   1.402   0.054   3267.7   1.346   0.289   3548.8   1.252   0.000   3894.7   1.293   0.000   2856.9   1.402   0.054   3267.5   1.396   0.279   3537.2   1.260   0.000   3994.1   1.295   0.000   292.8   1.410   0.094   3257.7   1.260   0.2												
2744.4         1.416         0.005         3085.8         1.447         0.067         3433.1         1.200         0.019         3768.7         1.286         0.000           2750.0         1.424         0.009         3097.4         1.453         0.073         3438.8         1.204         0.016         3780.3         1.286         0.000           2767.6         1.433         0.011         3103.2         1.459         0.081         3444.6         1.207         0.015         3780.3         1.287         0.000           27773.4         1.438         0.019         3114.8         1.470         0.098         3450.2         1.213         0.011         3797.6         1.288         0.000           2779.1         1.442         0.025         3120.6         1.474         0.108         3462.0         1.217         0.010         3809.2         1.289         0.000           2790.7         1.448         0.038         3132.1         1.481         0.133         3473.6         1.222         0.007         3815.0         1.289         0.000           2802.3         1.450         0.063         3149.5         1.480         0.133         3473.6         1.222         0.006         3820.8												
2750.2         1,420         0.007         3091.6         1.447         0.067         3433.1         1.200         0.019         3774.5         1.286         0.000           2756.8         1.429         0.0011         3103.2         1.459         0.081         3444.6         1.207         0.013         3786.1         1.287         0.000           2767.6         1.433         0.015         3109.0         1.464         0.088         3450.4         1.210         0.013         3791.8         1.287         0.000           2773.4         1.438         0.019         3114.8         1.470         0.098         3450.2         1.213         0.011         3797.6         1.288         0.000           2779.7         1.446         0.031         3126.4         1.478         0.120         3467.8         1.220         0.009         3803.4         1.288         0.000           2790.7         1.448         0.033         3132.1         1.481         0.133         3137.9         1.482         0.167         3479.4         1.225         0.006         3820.8         1.289         0.000           2802.3         1.457         0.063         3149.5         1.482         0.162         3485.1												
2756.0         1.424         0.009         3097.4         1.453         0.073         3438.8         1.204         0.016         3780.3         1.286         0.000           2767.6         1.433         0.015         3109.0         1.464         0.088         3450.4         1.210         0.013         3791.8         1.287         0.000           2773.1         1.438         0.019         3114.8         1.470         0.098         3456.2         1.213         0.011         3797.6         1.288         0.000           2779.1         1.442         0.025         3120.6         1.474         0.108         3462.0         1.217         0.010         3809.2         1.289         0.000           2790.7         1.448         0.038         3132.1         1.481         0.133         3473.6         1.222         0.007         3815.0         1.289         0.000           2802.3         1.452         0.054         3143.7         1.482         0.162         3485.1         1.228         0.005         3826.6         1.290         0.000           2808.1         1.457         0.063         3149.5         1.480         0.166         3485.1         1.228         0.005         3826.6												
2761.8         1.429         0.011         3103.2         1.459         0.081         3444.6         1.207         0.015         3786.1         1.287         0.000           2767.6         1.433         0.015         3109.0         1.464         0.088         3450.4         1.210         0.011         3797.6         1.288         0.000           27779.1         1.442         0.025         3120.6         1.474         0.108         3456.2         1.217         0.010         3803.4         1.288         0.000           2784.9         1.446         0.031         3126.4         1.478         0.120         3467.8         1.222         0.009         3809.2         1.289         0.000           2790.5         1.450         0.046         3137.9         1.482         0.147         3473.6         1.222         0.007         3815.0         1.289         0.000           2802.3         1.455         0.063         3149.5         1.480         0.162         3485.1         1.228         0.005         382.6         1.290         0.000           2813.9         1.457         0.076         3155.3         1.476         0.192         3496.7         1.234         0.003         383.1												
2767.6         1.433         0.015         3109.0         1.464         0.088         3450.4         1.210         0.013         3791.8         1.287         0.000           2773.1         1.438         0.019         3114.8         1.470         0.098         3456.2         1.217         0.010         3803.4         1.288         0.000           2784.9         1.446         0.031         3126.4         1.478         0.120         3467.8         1.220         0.009         3809.2         1.289         0.000           2790.5         1.448         0.038         3132.1         1.481         0.133         3473.6         1.222         0.007         3815.0         1.289         0.000           2802.3         1.452         0.054         3143.7         1.482         0.162         3485.1         1.228         0.005         3826.6         1.290         0.000           2813.9         1.457         0.063         3149.5         1.480         0.176         3490.9         1.231         0.004         3838.1         1.291         0.000           2813.9         1.457         0.098         3161.1         1.476         0.192         3496.7         1.231         0.003         3843.1												
2773.4         1.438         0.019         3114.8         1.470         0.098         3456.2         1.213         0.011         3797.6         1.288         0.000           2779.1         1.442         0.025         3120.6         1.474         0.108         3462.0         1.217         0.010         3803.4         1.288         0.000           2790.7         1.448         0.031         3126.4         1.478         0.120         3467.8         1.220         0.009         3809.2         1.289         0.000           2790.5         1.450         0.046         3137.9         1.482         0.147         3479.4         1.225         0.006         3820.8         1.289         0.000           2802.3         1.455         0.063         3149.5         1.480         0.176         3490.9         1.231         0.004         3838.1         1.290         0.000           2813.9         1.457         0.076         3155.3         1.476         0.192         3496.7         1.234         0.003         3843.9         1.291         0.000           2825.4         1.436         0.130         316.9         1.463         0.223         3508.3         1.238         0.002         3849.7												
2779.1         1.442         0.025         3120.6         1.474         0.108         3462.0         1.217         0.010         3803.4         1.288         0.000           2784.9         1.446         0.031         3126.4         1.478         0.120         3467.8         1.220         0.007         3815.0         1.289         0.000           2790.5         1.450         0.046         3137.9         1.482         0.147         3479.4         1.225         0.006         3820.8         1.289         0.000           2802.3         1.455         0.053         3143.7         1.482         0.162         3485.1         1.228         0.005         3826.6         1.290         0.000           2813.9         1.457         0.076         3155.3         1.476         0.192         3496.7         1.231         0.003         383.1         1.291         0.000           2813.9         1.457         0.098         3161.1         1.470         0.208         3502.5         1.236         0.003         3843.9         1.291         0.000           2852.4         1.436         0.131         3172.6         1.452         0.238         3508.3         1238         0.002         3847.7         <												
2784.9												
2790.7         1.448         0.038         3132.1         1.481         0.133         3473.6         1.222         0.007         3815.0         1.289         0.000           2796.5         1.450         0.046         3137.9         1.482         0.162         3485.1         1.225         0.006         3820.8         1.289         0.000           2802.3         1.455         0.063         3149.5         1.480         0.176         3490.9         1.231         0.004         3832.4         1.290         0.000           2819.6         1.457         0.076         3155.3         1.476         0.192         3496.7         1.234         0.003         3843.9         1.291         0.000           2819.6         1.457         0.098         3161.1         1.470         0.208         3502.5         1.236         0.003         3843.9         1.291         0.000           2825.4         1.436         0.130         3166.9         1.463         0.223         3508.3         1.238         0.002         3844.9         1.291         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3861.3				3120.6	1.474	0.108	3462.0					
2796.5         1.450         0.046         3137.9         1.482         0.147         3479.4         1.225         0.006         3820.8         1.289         0.000           2802.3         1.452         0.054         3143.7         1.482         0.162         3485.1         1.228         0.004         3832.4         1.290         0.000           2808.1         1.457         0.076         3155.3         1.476         0.192         3496.7         1.234         0.003         3838.1         1.291         0.000           2819.6         1.457         0.098         3161.1         1.470         0.208         3502.5         1.236         0.003         3849.7         1.291         0.000           2831.2         1.390         0.134         3172.6         1.452         0.238         3514.1         1.241         0.002         3855.5         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         387.9         1.292         0.001           2844.8         1.367         0.055         3190.0         1.411         0.271         3531.4         1.247         0.001         3878.6												
2802.3         1.452         0.054         3143.7         1.482         0.162         3485.1         1.228         0.005         3826.6         1.290         0.000           2808.1         1.455         0.063         3149.5         1.480         0.176         3490.9         1.231         0.004         3832.4         1.290         0.000           2813.9         1.457         0.076         3155.3         1.476         0.192         3496.7         1.234         0.003         3838.1         1.291         0.000           2825.4         1.436         0.130         3166.9         1.463         0.223         3508.3         1.238         0.002         3849.7         1.291         0.001           2837.0         1.361         0.101         3178.4         1.440         0.251         3519.9         1.243         0.002         3867.1         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3884.6						0.133						
2808.1         1.455         0.063         3149.5         1.480         0.176         3490.9         1.231         0.004         3832.4         1.290         0.000           2813.9         1.457         0.098         3161.1         1.470         0.208         3502.5         1.236         0.003         3843.9         1.291         0.000           2825.4         1.436         0.130         3166.9         1.463         0.223         3508.3         1.238         0.002         3843.9         1.291         0.000           2831.2         1.390         0.134         3172.6         1.452         0.238         3514.1         1.241         0.002         3855.5         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.001           2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3878.6         1.293         0.000           2865.9         1.402         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3896.0												
2813.9         1.457         0.076         3155.3         1.476         0.192         3496.7         1.234         0.003         3838.1         1.291         0.000           2819.6         1.457         0.098         3161.1         1.470         0.208         3502.5         1.236         0.003         3843.9         1.291         0.000           2831.2         1.390         0.134         3172.6         1.452         0.238         3514.1         1.241         0.002         3855.5         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2844.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3878.6         1.293         0.000           2865.9         1.402         0.054         3207.4         1.364         0.289         3548.8         1.252         0.000         3884.4												
2819.6         1.457         0.098         3161.1         1.470         0.208         3502.5         1.236         0.003         3843.9         1.291         0.000           2825.4         1.436         0.130         3166.9         1.463         0.223         3508.3         1.238         0.002         3849.7         1.291         0.001           2837.0         1.361         0.101         3178.4         1.440         0.251         3519.9         1.243         0.002         3861.3         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3878.6         1.293         0.000           2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3884.4         1.293         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0												
2825.4         1.436         0.130         3166.9         1.463         0.223         3508.3         1.238         0.002         3849.7         1.291         0.001           2831.2         1.390         0.134         3172.6         1.452         0.238         3514.1         1.241         0.002         3855.5         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2848.6         1.378         0.055         3190.0         1.411         0.271         3531.4         1.247         0.000         3872.9         1.292         0.000           2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3878.6         1.293         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0         1.294         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0												
2831.2         1.390         0.134         3172.6         1.452         0.238         3514.1         1.241         0.002         3855.5         1.292         0.001           2837.0         1.361         0.101         3178.4         1.440         0.251         3519.9         1.243         0.002         3861.3         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2848.6         1.378         0.055         3190.0         1.411         0.271         3531.4         1.247         0.000         3878.6         1.293         0.000           2865.9         1.402         0.054         3207.4         1.364         0.289         3548.8         1.252         0.000         3878.6         1.293         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3554.6         1.254         0.000         3890.2         1.293         0.000           2887.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.256         0.000         3901.8												
2837.0         1.361         0.101         3178.4         1.440         0.251         3519.9         1.243         0.002         3861.3         1.292         0.001           2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3878.6         1.293         0.000           2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3878.6         1.293         0.000           2865.9         1.402         0.054         3207.4         1.364         0.289         3548.8         1.252         0.000         3890.2         1.293         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.254         0.000         3901.8         1.294         0.000           2889.1         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4												
2842.8         1.364         0.069         3184.2         1.426         0.262         3525.6         1.245         0.001         3867.1         1.292         0.000           2848.6         1.378         0.055         3190.0         1.411         0.271         3531.4         1.247         0.000         3872.9         1.292         0.000           2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3884.4         1.293         0.000           2865.9         1.402         0.054         3207.4         1.364         0.289         3548.8         1.252         0.000         3896.0         1.293         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0         1.294         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3566.4         1.254         0.000         3907.6         1.294         0.000           2883.3         1.415         0.066         3224.7         1.318         0.293         3566.2         1.257         0.000         3907.6												
2848.6         1.378         0.055         3190.0         1.411         0.271         3531.4         1.247         0.000         3872.9         1.292         0.000           2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3878.6         1.293         0.000           2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3894.4         1.293         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0         1.294         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.256         0.000         3901.8         1.294         0.000           2883.3         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4         1.295         0.000           2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3913.4												
2854.4         1.389         0.052         3195.8         1.396         0.279         3537.2         1.249         0.000         3878.6         1.293         0.000           2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3884.4         1.293         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3890.2         1.293         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.256         0.000         3901.8         1.294         0.000           2883.3         1.416         0.072         3230.5         1.303         0.293         3566.2         1.257         0.000         3901.6         1.295         0.000           2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3913.4         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3991.9	2842.8											
2860.2         1.396         0.053         3201.6         1.381         0.285         3543.0         1.251         0.000         3884.4         1.293         0.000           2865.9         1.402         0.054         3207.4         1.364         0.289         3548.8         1.252         0.000         3890.2         1.293         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.256         0.000         3901.8         1.294         0.000           2883.3         1.415         0.066         3224.7         1.318         0.293         3566.2         1.257         0.000         3907.6         1.295         0.000           2889.1         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4         1.295         0.000           2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3913.4         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3930.7												
2865.9         1.402         0.054         3207.4         1.364         0.289         3548.8         1.252         0.000         3890.2         1.293         0.000           2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0         1.294         0.000           2887.5         1.411         0.061         3224.7         1.318         0.293         3560.2         1.257         0.000         3901.8         1.294         0.000           2889.1         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3907.6         1.295         0.000           2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3913.4         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3924.9         1.295         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3589.3         1.263         0.000         3936.5												
2871.7         1.407         0.057         3213.2         1.349         0.292         3554.6         1.254         0.000         3896.0         1.294         0.000           2877.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.256         0.000         3901.8         1.294         0.000           2883.3         1.415         0.066         3224.7         1.318         0.293         3566.2         1.257         0.000         3907.6         1.295         0.000           2889.1         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4         1.295         0.000           2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3919.2         1.295         0.000           2906.5         1.413         0.090         3247.9         1.261         0.285         3589.3         1.261         0.000         3930.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3942.3												
2877.5         1.411         0.061         3218.9         1.333         0.293         3560.4         1.256         0.000         3901.8         1.294         0.000           2883.3         1.415         0.066         3224.7         1.318         0.293         3566.2         1.257         0.000         3907.6         1.295         0.000           2894.9         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3919.2         1.295         0.000           2906.5         1.413         0.090         3247.9         1.261         0.285         3589.3         1.261         0.000         3936.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3936.5         1.296         0.000           2912.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3942.3												
2883.3         1.415         0.066         3224.7         1.318         0.293         3566.2         1.257         0.000         3907.6         1.295         0.000           2889.1         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4         1.295         0.000           2894.9         1.417         0.084         3236.3         1.289         0.291         3577.7         1.260         0.000         3919.2         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3924.9         1.295         0.000           2906.5         1.413         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3930.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3936.5         1.296         0.000           2912.2         1.410         0.094         3259.5         1.233         0.277         3600.9         1.265         0.000         3942.3												
2889.1         1.416         0.072         3230.5         1.303         0.292         3571.9         1.258         0.000         3913.4         1.295         0.000           2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3919.2         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3924.9         1.295         0.000           2902.5         1.413         0.090         3247.9         1.261         0.285         3589.3         1.263         0.000         3930.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3936.5         1.296         0.000           2918.0         1.407         0.098         3259.5         1.233         0.277         3600.9         1.265         0.000         3942.3         1.296         0.000           2923.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3941.1												
2894.9         1.417         0.078         3236.3         1.289         0.291         3577.7         1.260         0.000         3919.2         1.295         0.000           2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3924.9         1.295         0.000           2906.5         1.413         0.090         3247.9         1.261         0.285         3589.3         1.263         0.000         3930.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3936.5         1.296         0.000           2918.0         1.407         0.098         3259.5         1.233         0.277         3600.9         1.265         0.000         3942.3         1.296         0.000           2923.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3948.1         1.296         0.000           2929.6         1.397         0.108         3271.0         1.206         0.265         3612.5         1.267         0.000         3953.9			0.066									
2900.7         1.415         0.084         3242.1         1.275         0.288         3583.5         1.261         0.000         3924.9         1.295         0.000           2906.5         1.413         0.090         3247.9         1.261         0.285         3589.3         1.263         0.000         3930.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.265         0.000         3936.5         1.296         0.000           2918.0         1.407         0.098         3259.5         1.233         0.277         3600.9         1.265         0.000         3942.3         1.296         0.000           2923.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3948.1         1.296         0.000           2929.6         1.397         0.108         3271.0         1.206         0.265         3612.5         1.267         0.000         3953.9         1.296         0.000           2935.4         1.390         0.111         3276.8         1.192         0.257         3618.2         1.268         0.000         3959.7	2889.1	1.416	0.072	3230.5	1.303	0.292	3571.9	1.258	0.000			0.000
2906.5         1.413         0.090         3247.9         1.261         0.285         3589.3         1.263         0.000         3930.7         1.296         0.000           2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3936.5         1.296         0.000           2918.0         1.407         0.098         3259.5         1.233         0.277         3600.9         1.265         0.000         3942.3         1.296         0.000           2923.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3948.1         1.296         0.000           2929.6         1.397         0.108         3271.0         1.206         0.265         3612.5         1.267         0.000         3953.9         1.296         0.000           2935.4         1.390         0.111         3276.8         1.192         0.257         3618.2         1.268         0.000         3959.7         1.297         0.000           2941.2         1.384         0.112         3282.6         1.179         0.247         3624.0         1.269         0.000         3971.2	2894.9											
2912.2         1.410         0.094         3253.7         1.247         0.281         3595.1         1.264         0.000         3936.5         1.296         0.000           2918.0         1.407         0.098         3259.5         1.233         0.277         3600.9         1.265         0.000         3942.3         1.296         0.000           2923.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3948.1         1.296         0.000           2929.6         1.397         0.108         3271.0         1.206         0.265         3612.5         1.267         0.000         3953.9         1.296         0.000           2935.4         1.390         0.111         3276.8         1.192         0.257         3618.2         1.268         0.000         3959.7         1.297         0.000           2941.2         1.384         0.112         3282.6         1.179         0.247         3624.0         1.269         0.000         3965.4         1.297         0.000           2947.0         1.378         0.113         3294.2         1.155         0.224         3635.6         1.271         0.000         3971.2												
2918.0       1.407       0.098       3259.5       1.233       0.277       3600.9       1.265       0.000       3942.3       1.296       0.000         2923.8       1.403       0.103       3265.2       1.220       0.271       3606.7       1.266       0.000       3948.1       1.296       0.000         2929.6       1.397       0.108       3271.0       1.206       0.265       3612.5       1.267       0.000       3953.9       1.296       0.000         2935.4       1.390       0.111       3276.8       1.192       0.257       3618.2       1.268       0.000       3959.7       1.297       0.000         2941.2       1.384       0.112       3282.6       1.179       0.247       3624.0       1.269       0.000       3965.4       1.297       0.000         2947.0       1.378       0.113       3288.4       1.166       0.235       3629.8       1.270       0.000       3971.2       1.297       0.000         2952.7       1.369       0.117       3294.2       1.155       0.224       3635.6       1.271       0.000       3971.0       1.297       0.000         2958.5       1.355       0.114       3300.0       1.14	2906.5	1.413	0.090	3247.9	1.261	0.285	3589.3	1.263	0.000	3930.7	1.296	0.000
2923.8         1.403         0.103         3265.2         1.220         0.271         3606.7         1.266         0.000         3948.1         1.296         0.000           2929.6         1.397         0.108         3271.0         1.206         0.265         3612.5         1.267         0.000         3953.9         1.296         0.000           2935.4         1.390         0.111         3276.8         1.192         0.257         3618.2         1.268         0.000         3959.7         1.297         0.000           2941.2         1.384         0.112         3282.6         1.179         0.247         3624.0         1.269         0.000         3965.4         1.297         0.000           2947.0         1.378         0.113         3288.4         1.166         0.235         3629.8         1.270         0.000         3971.2         1.297         0.000           2952.7         1.369         0.117         3294.2         1.155         0.224         3635.6         1.271         0.000         3971.0         1.297         0.000           2958.5         1.355         0.114         3300.0         1.145         0.209         3641.4         1.272         0.000         3982.8												0.000
2929.6         1.397         0.108         3271.0         1.206         0.265         3612.5         1.267         0.000         3953.9         1.296         0.000           2935.4         1.390         0.111         3276.8         1.192         0.257         3618.2         1.268         0.000         3953.9         1.297         0.000           2941.2         1.384         0.112         3282.6         1.179         0.247         3624.0         1.269         0.000         3965.4         1.297         0.000           2947.0         1.378         0.113         3288.4         1.166         0.235         3629.8         1.270         0.000         3971.2         1.297         0.000           2952.7         1.369         0.117         3294.2         1.155         0.224         3635.6         1.271         0.000         3977.0         1.297         0.000           2958.5         1.355         0.114         3300.0         1.145         0.209         3641.4         1.272         0.000         3982.8         1.297         0.000           2964.3         1.343         0.101         3305.7         1.137         0.194         3647.2         1.273         0.000         3988.6	2918.0	1.407	0.098	3259.5	1.233	0.277	3600.9	1.265	0.000	3942.3	1.296	0.000
2935.4       1.390       0.111       3276.8       1.192       0.257       3618.2       1.268       0.000       3959.7       1.297       0.000         2941.2       1.384       0.112       3282.6       1.179       0.247       3624.0       1.269       0.000       3965.4       1.297       0.000         2947.0       1.378       0.113       3288.4       1.166       0.235       3629.8       1.270       0.000       3971.2       1.297       0.000         2952.7       1.369       0.117       3294.2       1.155       0.224       3635.6       1.271       0.000       3977.0       1.297       0.000         2958.5       1.355       0.114       3300.0       1.145       0.209       3641.4       1.272       0.000       3982.8       1.297       0.000         2964.3       1.343       0.101       3305.7       1.137       0.194       3647.2       1.273       0.000       3988.6       1.297       0.000         2970.1       1.345       0.085       3311.5       1.132       0.177       3653.0       1.274       0.000       3994.4       1.297       0.000												
2941.2     1.384     0.112     3282.6     1.179     0.247     3624.0     1.269     0.000     3965.4     1.297     0.000       2947.0     1.378     0.113     3288.4     1.166     0.235     3629.8     1.270     0.000     3971.2     1.297     0.000       2952.7     1.369     0.117     3294.2     1.155     0.224     3635.6     1.271     0.000     3977.0     1.297     0.000       2958.5     1.355     0.114     3300.0     1.145     0.209     3641.4     1.272     0.000     3982.8     1.297     0.000       2964.3     1.343     0.101     3305.7     1.137     0.194     3647.2     1.273     0.000     3988.6     1.297     0.000       2970.1     1.345     0.085     3311.5     1.132     0.177     3653.0     1.274     0.000     3994.4     1.297     0.000	2929.6		0.108	3271.0	1.206	0.265	3612.5			3953.9		0.000
2947.0     1.378     0.113     3288.4     1.166     0.235     3629.8     1.270     0.000     3971.2     1.297     0.000       2952.7     1.369     0.117     3294.2     1.155     0.224     3635.6     1.271     0.000     3977.0     1.297     0.000       2958.5     1.355     0.114     3300.0     1.145     0.209     3641.4     1.272     0.000     3982.8     1.297     0.000       2964.3     1.343     0.101     3305.7     1.137     0.194     3647.2     1.273     0.000     3988.6     1.297     0.000       2970.1     1.345     0.085     3311.5     1.132     0.177     3653.0     1.274     0.000     3994.4     1.297     0.000												
2947.0     1.378     0.113     3288.4     1.166     0.235     3629.8     1.270     0.000     3971.2     1.297     0.000       2952.7     1.369     0.117     3294.2     1.155     0.224     3635.6     1.271     0.000     3977.0     1.297     0.000       2958.5     1.355     0.114     3300.0     1.145     0.209     3641.4     1.272     0.000     3982.8     1.297     0.000       2964.3     1.343     0.101     3305.7     1.137     0.194     3647.2     1.273     0.000     3988.6     1.297     0.000       2970.1     1.345     0.085     3311.5     1.132     0.177     3653.0     1.274     0.000     3994.4     1.297     0.000	2941.2	1.384	0.112	3282.6	1.179	0.247		1.269	0.000	3965.4	1.297	0.000
2952.7     1.369     0.117     3294.2     1.155     0.224     3635.6     1.271     0.000     3977.0     1.297     0.000       2958.5     1.355     0.114     3300.0     1.145     0.209     3641.4     1.272     0.000     3982.8     1.297     0.000       2964.3     1.343     0.101     3305.7     1.137     0.194     3647.2     1.273     0.000     3988.6     1.297     0.000       2970.1     1.345     0.085     3311.5     1.132     0.177     3653.0     1.274     0.000     3994.4     1.297     0.000	2947.0		0.113		1.166	0.235	3629.8	1.270	0.000	3971.2	1.297	0.000
2958.5     1.355     0.114     3300.0     1.145     0.209     3641.4     1.272     0.000     3982.8     1.297     0.000       2964.3     1.343     0.101     3305.7     1.137     0.194     3647.2     1.273     0.000     3988.6     1.297     0.000       2970.1     1.345     0.085     3311.5     1.132     0.177     3653.0     1.274     0.000     3994.4     1.297     0.000	2952.7	1.369	0.117	3294.2	1.155	0.224		1.271	0.000	3977.0	1.297	0.000
2964.3     1.343     0.101     3305.7     1.137     0.194     3647.2     1.273     0.000     3988.6     1.297     0.000       2970.1     1.345     0.085     3311.5     1.132     0.177     3653.0     1.274     0.000     3994.4     1.297     0.000												
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	2975.9	1.352	0.082	3317.3	1.128	0.162	3658.7	1.274	0.000	L		

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TABLE 4C—Continued

[(1)		1-	[		1	[( <b>-1</b> )			[(1)		
ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	<u>k</u>
2646.0	1.375 1.376	0.005 0.003	2981.7 2987.5	1.355	0.088	3323.1	1.105	0.140	3664.5 3670.3	1.274	0.000
2651.8	1.378	0.003	2987.3	1.342 1.334	0.085 0.069	3328.9 3334.7	1.107 1.112	0.122 0.106	3676.1	1.275 1.276	0.000
2657.6	1.380	0.002	2999.0	1.334	0.059	3340.5	1.112	0.106	3681.9	1.277	0.000
2663.4	1.382	0.002	3004.8	1.350	0.030	3346.3	1.116	0.093	3687.7	1.277	0.000
2669.2	1.384	0.000	3010.6	1.361	0.034	3352.0	1.132	0.081	3693.5	1.279	0.000
2675.0	1.386	0.000	3016.4	1.371	0.034	3357.8	1.132	0.063	3699.3	1.279	0.000
2680.8	1.388	0.000	3022.2	1.380	0.032	3363.6	1.146	0.056	3705.0	1.280	0.000
2686.6	1.390	0.000	3028.0	1.387	0.033	3369.4	1.152	0.050	3710.8	1.280	0.000
2692.3	1.392	0.000	3033.8	1.394	0.033	3375.2	1.158	0.031	3716.6	1.281	0.000
2698.1	1.395	0.000	3039.6	1.400	0.034	3381.0	1.163	0.043	3710.0	1.281	0.000
2703.9	1.397	0.000	3045.3	1.407	0.038	3386.8	1.168	0.038	3728.2	1.282	0.000
2709.7	1.399	0.000	3051.1	1.413	0.040	3392.6	1.173	0.034	3734.0	1.282	0.000
2715.5	1.402	0.002	3056.9	1.419	0.042	3398.3	1.177	0.030	3739.8	1.283	0.000
2721.3	1.404	0.002	3062.7	1.425	0.044	3404.1	1.181	0.026	3745.5	1.283	0.000
2727.1	1.407	0.002	3068.5	1.431	0.048	3409.9	1.185	0.024	3751.3	1.284	0.000
2732.8	1.410	0.003	3074.3	1.437	0.052	3415.7	1.190	0.024	3757.1	1.284	0.000
2738.6	1.413	0.003	3080.1	1.444	0.056	3421.5	1.194	0.021	3762.9	1.285	0.000
2744.4	1.417	0.005	3085.8	1.450	0.061	3427.3	1.198	0.016	3768.7	1.285	0.000
2750.2	1.421	0.006	3091.6	1.457	0.066	3433.1	1.202	0.014	3774.5	1.286	0.000
2756.0	1.425	0.009	3097.4	1.464	0.073	3438.8	1.202	0.013	3780.3	1.286	0.000
2761.8	1.429	0.011	3103.2	1.470	0.080	3444.6	1.209	0.013	3786.1	1.287	0.000
2767.6	1.434	0.015	3109.0	1.477	0.089	3450.4	1.212	0.010	3791.8	1.287	0.000
2773.4	1.438	0.019	3114.8	1.484	0.099	3456.2	1.216	0.008	3797.6	1.287	0.000
2779.1	1.442	0.025	3120.6	1.490	0.111	3462.0	1.219	0.007	3803.4	1.288	0.000
2784.9	1.445	0.031	3126.4	1.494	0.125	3467.8	1.222	0.006	3809.2	1.288	0.000
2790.7	1.448	0.038	3132.1	1.498	0.139	3473.6	1.224	0.006	3815.0	1.289	0.000
2796.5	1.449	0.045	3137.9	1.500	0.156	3479.4	1.227	0.005	3820.8	1.289	0.000
2802.3	1.451	0.052	3143.7	1.500	0.173	3485.1	1.230	0.004	3826.6	1.290	0.000
2808.1	1.453	0.060	3149.5	1.497	0.191	3490.9	1.232	0.003	3832.4	1.290	0.000
2813.9	1.456	0.071	3155.3	1.493	0.208	3496.7	1.235	0.003	3838.1	1.290	0.000
2819.6	1.458	0.090	3161.1	1.485	0.226	3502.5	1.237	0.002	3843.9	1.291	0.000
2825.4	1.444	0.124	3166.9	1.476	0.245	3508.3	1.239	0.002	3849.7	1.291	0.001
2831.2	1.397	0.136	3172.6	1.463	0.261	3514.1	1.241	0.001	3855.5	1.291	0.001
2837.0	1.364	0.103	3178.4	1.448	0.275	3519.9	1.243	0.000	3861.3	1.291	0.001
2842.8	1.366	0.069	3184.2	1.432	0.288	3525.6	1.245	0.000	3867.1	1.292	0.000
2848.6	1.380	0.055	3190.0	1.414	0.298	3531.4	1.247	0.000	3872.9	1.292	0.000
2854.4	1.391	0.052	3195.8	1.396	0.305	3537.2	1.249	0.000	3878.6	1.292	0.000
2860.2	1.398	0.052	3201.6	1.377	0.310	3543.0	1.251	0.000	3884.4	1.293	0.000
2865.9	1.404	0.054	3207.4	1.359	0.314	3 <b>54</b> 8.8	1.253	0.000	3890.2	1.293	0.000
2871.7	1.409	0.056	3213.2	1.341	0.315	3554.6	1.254	0.000	3896.0	1.293	0.000
2877.5	1.413	0.060	3218.9	1.324	0.315	3560.4	1.256	0.000	3901.8	1.294	0.000
2883.3	1.417	0.065	3224.7	1.307	0.314	3566.2	1.257	0.000	3907.6	1.294	0.000
2889.1	1.419	0.071	3230.5	1.292	0.311	3571.9	1.259	0.000	3913.4	1.295	0.000
2894.9	1.419	0.076	3236.3	1.276	0.309	3 <b>577.</b> 7	1.260	0.000	3919.2	1.295	0.000
2900.7	1.418	0.082	3242.1	1.261	0.305	3583.5	1.261	0.000	3924.9	1.295	0.000
2906.5	1.416	0.088	3247.9	1.247	0.301	3589.3	1.263	0.000	3930.7	1.295	0.000
2912.2	1.413	0.092	3253.7	1.232	0.297	3595.1	1.264	0.000	3936.5	1.295	0.000
2918.0	1.411	0.096	3259.5	1.218	0.291	3600.9	1.265	0.000	3942.3	1.296	0.000
2923.8	1.408	0.101	3265.2	1.203	0.286	3606.7	1.266	0.000	3948.1	1.296	0.000
2929.6	1.404	0.107	3271.0	1.188	0.278	3612.5	1.267	0.000	3953.9	1.296	0.000
2935.4	1.396	0.112	3276.8	1.173	0.269	3618.2	1.268	0.000	3959.7	1.296	0.000
2941.2	1.389	0.113	3282.6	1.159	0.258	3624.0	1.269	0.000	3965.4	1.296	0.000
2947.0	1.383	0.116	3288.4	1.145	0.246	3629.8	1.270	0.000	3971.2	1.297	0.000
2952.7	1.372	0.120	3294.2	1.132	0.231	3635.6	1.271	0.000	3977.0	1.297	0.000
2958.5	1.356	0.117	3300.0	1.121	0.214	3641.4	1.272	0.000	3982.8	1.297	0.000
2964.3	1.344	0.101	3305.7	1.113	0.196	3647.2	1.272	0.000	3988.6	1.297	0.000
2970.1	1.346	0.083	3311.5	1.107	0.177	3653.0	1.273	0.000	3994.4	1.297	0.000
2975.9	1.357	0.080	3317.3	1.105	0.158	3658.7	1.274	0.000			

Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name		0.000	38	88	38	000	88	88	88	0.000	0.002	300	0.003	46.0	38	26	80	8 8	010	013	014	015	017	010	021	025	0.020	0.032	0.028	620	0.03	0.037	0.042	0.050	983	790	076	082	962	118	118	0.122	28	097 085	077
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		90.0							-			_	-					9 6	200			12 0.	50	9 12	. 9	9:5	2.2	. 2	93	S 5	: '4	88	7.00	9 =	 	20.0	2.0	98	5 5 9 0			~ ~			_
Name	"	1.2	77	-i -	-i	-i	ii .	-i -	::	-i .	: -	-ii	: <del></del>	∹.	-i	: <u>-</u> -	<u></u> i	1.3		-		1.3	1.3		1.35	1.3	3, 5	1.3	1.3		1.3	1.36	1.37	3.5	136	1.36	1.3	1.36	1.3	1.33	1.32	7.3	173	1.2	1.2
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	v (cm ⁻¹	1183.4	1187.3	1189.2	1193.1	1195.0	1198.8	1205.6	1217.2	1223.0	1228.7	1240.3	1246.1	1251.9	125/./	1269.3	1275.0	1280.8	1280.0	1298.2	1304.0	1309.8	1315.5	1327.1	1332.9	1338.7	1350.3	1356.1	1361.8	1367.6	1379.2	1385.0	1390.8	1402.3	1408.1	1413.9	1425.5	1431.3	1437.1	1448.6	1454.4	1460.2	1471.8	1477.6	1489.2
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	×	0.000	0.000	000	0.000	000	0.000	9 9	0.00	0.000	000		0.000	0.000	0.00	0.016	0.027	0.036	0.043	0.056	0.060	0.065	0.070	0.075	0.078	0.078	0.070	0.059	0.046	0.031	0.013	0.006	0.00	000	0.003	0.003	0.002	0.000	0.00	0.00	0.000	0.00	0.000	0.00 0.000	0.000
1.450   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.00	=	1.097	1.125	1.138	1.160	1.169	1.187	1.195	1.211	1.217	1.225	1.239	1.247	1.256	4 5	1.281	1.284	1.283	1 282	1.277	1.279	1.273	1.266	1.261	1.251	1.239	1.223	1.213	1.209	1.213	1.223	1.231	1.238	1 250	1.254	1.257	1.261	1.263	1.265	1.270	1.273	1.275	1.279	1.281	1.284
Cont.   1	v (cm ⁻¹ )	1069.6	10/1.5	1075.4	1079.3	1081.2	1085.0	1087.0	1090.8	1092.8	1094.7	1098.5	1100.5	1102.4	1.04.3	1108.2	1110.1	1112.0	1114.0	1117.8	1119.8	1121.7	1123.6	1127.5	1129.4	1131.3	1135.2	1137.1	1139.0	1141.0	1144.8	1146.8	1148.7	1152.6	1154.5	1156.4	1160.3	1162.2	1164.1	1168.0	1169.9	1173.8	1175.7	1177.6	1181.5
Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Chargo   1, 19   Char		0.001	0.003	0.00	0.000	0.002	0.002	0.002	0.002	0.003	0.003	9.6	0.00	0.00	0.00	0.007	0.010	0.012	0.01	0.030	0.039	0.048	0.057	0.00	0.133	0.259	0.434	0.898	1.04 4	1.087	1.137	1.058	1.001	0.939	0.777	0.711	0.487	0.317	0.134	0.020	0.010	0.00	0.000	00.0	0.000
Cont.   1	-	1.432	1.450	1.444	1.453	1.458	1.469	1.475	1.488	1.495	1.502	1.519	1.529	1.540	1.552	1.579	1.596	1.614	1.050	1.69	1.712	1.742	1.776	1.907	2.000	2.098	2.167	2.016	1.829	1.728	1.314	1.250	1.126	0.857	0.840	0.733	0.622	0.577	0.631	0.836	0.897	0.944	1.013	1.039 1.060	1.081
Cont.   Dec.   Cont.   Dec.   Cont.   Dec.   Cont.   Dec.   Dec	v (cm ⁻¹ )	955.8	95/./ 959.7	961.6	965.4	967.4	971.2	973.2	977.0	978.9	980.9	984.7	986.7	988.6	990.5	994.4	996.3	998.2	1000.	1004.0	1006.0	1007.9	1009.8	1013.7	1015.6	1017.5	1021.4	1023.3	1025.2	1027.2	1029.1	1033.0	1034.9	1038.7	1040.7	1042.6	1046.5	1048.4	1050.3	1054.2	1056.1	1058.0	1061.9	1063.8	1067.7
Cont.   Dec.   Cont.   Dec.   Cont.   Dec.   Cont.   Dec.   Dec	<u> </u>	0.225	0.223	0.212	0.196	0.187	0.170	0.161	0.14	0.133	0.126	0.119	0.102	0.095	0.087	0.072	0.064	0.056	0.030	0.037	0.032	0.028	0.023	0.018	0.013	0.013	0.010	0.010	0.010	0.010	0.00	0.007	0.007	0000	0.006	0.00	0.00	0.004	0.00	0.00	0.003	0.003	0.003	0.003	0.003
National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   National Property   Nati	=	1.410	1.393	1.365	1.341	1.334	1.318	1.312	1.304	1.301	1.300	1.297	1.296	1.295	1.296	1.299	1.301	1.304	1.308	1.317	1.322	1.328	1.333	1.346		1.355	1.359	. ~1	1.365	1.300	1.371	1.373	1.376	1.376	1.384	1.387	1.392	1.395	1.398	1.404	1.407	1.411	1.417	1.421 1.424	1.428
Comp.   No.   No.   Com.   No.   No.   No.   No.   Com.   No.	v (cm ⁻¹ )	723.4	734.9	740.7	752.3	758.1	769.7	775.4	787.0	792.8	798.6	810.2	816.0	821.7	827.5	839.1	844.9	850.7	862.2	868.0	873.8	879.6	885.4	897.0	901.8	903.7	902.6	909.5	911.4	915.4	917.2	919.2	921.1	924.9	926.9	928.8	932.7	934.6	936.5 938.4	940.4	942.3	944.2 946.2	948.1	950.0 951.9	953.9
Com.	<u></u>	0.002	0.001	0.00	0.00	0.00	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.00	9.0	0.002	0.002	0.002	0.00	2000	0.003	0.003	90.0	800	0.010	0.011	0.014	0.018	0.022	0.024	0.027	0.034	0.038	0.040	0.058	0.067	0.090	0.103	0.120	0.151	0.166	0.186	0.211	0.221	0.227
CHILL   1.550   0.000   1649   1.347   0.077   2.871   1.394   0.016   2.830   1.548   0.002   1.649   1.347   0.077   2.871   1.394   0.016   2.830   1.548   0.002   2.845   1.395   0.002   1.649   1.347   0.077   2.871   1.394   0.016   2.881   1.346   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.019   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   1.395   0.018   2.845   2.845   2.845   2.395   0.012   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845   2.845	F	1.406	1.406	1.407	1.411	1.412	1.415	1.416	1.419	1.420	1.421	1.424	1.425	1.427	1.429	1.433	1.435	1.437	1.439	1444	1.447	1.450	1.455	1.462	1.465	1.468	1.474	1.479	1.481	1.485	1.494	1.498	1.503	1.509	1.520	1.524	1.533	1.535	1.536	1.529	1.525	1.515	1.482	1.464 1.445	1.426
Cam-1   n	v (cm ⁻¹ )	392.5	396.4 396.4	398.3	410.9	416.7	428.2	434.0 439.8	445.6	451.4	457.2	468.7	474.5	480.3	491.9	497.7	503.5	509.2	0.010	526.6	532.4	538.2	544.0 549.8	555.5	561.3	567.1	578.7	584.5	590.3	596.I	607.6	613.4	619.2	630.8	636.6	642.3	653.9	659.7	665.5	677.1	682.9	688.6 694.4	700.2	706.0 711.8	717.6
Cam-1   n	<u>k</u>	0.016	0.019	0.020	0.019	0.018	0.019	0.019	0.020	0.019	0.022	0.025	0.024	0.027	0.027	0.027	0.027	0.027	0.020	0.025	0.024	0.024	0.021	0.018	0.016	0.013	000	900.0	2000	200	0000	000.0	0000	38	000.0	00.00	000	100.0	900	0000	0000	98	0000	0000	000.0
Cem-1,         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )           53.0         1.549         0.012         1.449         0.074         280.7           55.0         1.550         0.000         1.649         1.347         0.074         280.7           55.0         1.552         0.004         1.689         1.348         0.074         280.7           58.8         1.559         0.004         1.689         1.348         0.074         280.8           60.8         1.559         0.004         1.726         1.353         0.068         282.5           60.8         1.559         0.004         1.726         1.353         0.068         284.2           60.8         1.550         0.007         1.740         1.350         0.068         284.2           66.5         1.560         0.071         1.740         0.068         284.2         286.0           66.5         1.560         0.071         1.740         0.068         284.2         286.0           66.5         1.560         0.071         1.740         0.068         1.86.1         30.0           66.5         1.560         0.071         1.784	=	l								1.397	308	1.398	1.397	1.397																															
(cm-1)         n         k         v (cm-1)         n           53.0         1.550         0.000         164.9         1.347           55.0         1.550         0.000         164.9         1.347           55.0         1.552         0.008         166.9         1.346           55.0         1.552         0.008         166.9         1.346           58.8         1.552         0.008         166.9         1.346           60.7         1.552         0.008         166.9         1.346           66.5         1.560         0.071         188.8         1.346           66.5         1.560         0.071         188.8         1.366           77.3         1.550         0.089         188.3         1.366           76.2         1.560         0.074         1.360         1.366           76.2         1.539         0.009         1.88.1         1.366           76.2         1.540         0.010         1.99.7         1.366           80.1         1.540         0.014         197.7         1.366           81.0         1.520         0.008         188.3         1.366           82.0         1.530	(cm ⁻¹ )																																												
(cm-1)         n         k         v (cm-1)         n           53.0         1.550         0.000         164.9         1.347           55.0         1.550         0.000         164.9         1.347           55.0         1.552         0.008         166.9         1.346           55.0         1.552         0.008         166.9         1.346           58.8         1.552         0.008         166.9         1.346           60.7         1.552         0.008         166.9         1.346           66.5         1.560         0.071         188.8         1.346           66.5         1.560         0.071         188.8         1.366           77.3         1.550         0.089         188.3         1.366           76.2         1.560         0.074         1.360         1.366           76.2         1.539         0.009         1.88.1         1.366           76.2         1.540         0.010         1.99.7         1.366           80.1         1.540         0.014         197.7         1.366           81.0         1.520         0.008         188.3         1.366           82.0         1.530	يد	0.077	0.075	0.063	0.06	0.062	0.046	0.050	0.047	0.043	0.042	0.042	0.043	0.043	0.040	0.048	0.045	0.042	0.040	0.033	0.028	0.028	0.027	0.028	0.024	0.023	0.023	0.022	0.018	0.018	0.018	0.017	0.020	0.019	0.018	0.018	0.018	0.017	0.016	0.013	0.012	0.014	0.015	0.017	0.018
(cm-1) n k v v v v v v v v v v v v v v v v v v	_ c	1																																											
(cm-1) n 550 550 550 550 668 550 668 550 668 550 678 668 668 665 665 665 665 665 66	v (cm ⁻¹ )	164.9	168.8	170.7	174.6	178.4	180.4	182.3	186.1	188.1	190.0	193.9	195.8	197.7	201.6	203.5	205.4	207.4	202.5	213.2	215.1	217.0	218.9	222.8	224.7	226.7	230.5	232.4	234.4	236.3	240.2	242.1	244.0	247.9	249.8	251.7	255.6	257.5	259.4	263.3	265.2	267.2	271.0	273.0 274.9	276.8
(cm-1) n 550 550 550 550 668 550 668 550 668 550 678 668 668 665 665 665 665 665 66	×	0.000	0.008	0.026	0.055	0.063	0.076	0.080	0.094	20.0	0.102	0.105	0.109	0.114	0.118	0.124	0.124	0.134	0.120	0.130	0.130	0.133	0.135	0.138	0.139	0.141	0.149	0.151	0.158	0.165	0.140	0.146	0.139	0.138	0.139	0.125	0.139	0.135	0.135	0.125	0.120	0.109	0.094	0.097	0.083
V (Cm-1) 55.0 55.0 55.0 55.0 55.0 55.0 55.0 55.	L C																																												
	v (cm ⁻¹ )	51.1	55.0	58.9	80.8	62.7 64.6	66.5	58.5 70.4	72.3	74.3	78.7	80.1	82.0	83.9	87.8 87.8	89.7	91.6	93.0	97.5	99.3	101.3	103.2	105.1	109.0	110.9	112.8	116.7	118.6	120.6	124.5	126.4	128.3	130.2	134.1	136.0	137.9	141.8	143.7	145.6	149.5	151.4	155.3	157.2	159.1 161.1	163.0

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v (cm ⁻¹ )		2996.6
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*	0.0000000000000000000000000000000000000	0.001
=		1.356
v (cm ⁻¹ )	2039.7 2045.0 2045.0 2045.0 2045.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 2047.0 20	2313.8
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		1.330
v (cm ⁻¹ )	1494.9 1500.7 1500.7 1518.1 1518.1 1523.9 1523.9 1523.9 1523.9 1523.9 1523.9 1533.9 1530.1 1541.0 1557.0 1560.1 1560.1 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1660.3 1730.4 1730.6 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 1730.8 17	1830.6

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F	1.288 1.290 1.290 1.292	1.293 1.294 1.295	1.296	1.303	1.308	1.310	1.315	1.319	1.321	1.325	1.330	1.332	1.336	1.340	1.339	1.336	1.329	1.326	1.321	1.321	1.329	1.337	1.341	1.349	1.360	1.368	1.375	1.382	1.392	1.382	1.378	1.306	1.315
v (cm ⁻¹ )	1183.4 1185.3 1187.3 1189.2	1193.1	1196.9	1211.4	1223.0	1228.7	1240.3	1251.9	1257.7	1269.3 1275.0	1280.8	1286.6 1292.4	1298.2	1309.8	1315.5	1327.1	1338.7	1344.5	1356.1	1361.8	1373.4	1385.0	1390.8 1396.6	1402.3	1408.1	1419.7	1431.3	1437.1	1448.6	1454.4	1466.0	1477.6	1489.2
×	0.000	0.000	0.000	800	800	0000	0.000	0.00	0.00	0.000	0.001	0.004 0.003	0.001	0.002	0.002	0.002	0.005	0.008	0.022	0.042 0.094	0.178	0.041	0.016	0.00	0.007	0.000	0.002	000	0.000	0000	0.000	000	0.000
	1.149	1.180 1.187 1.193	1.205	1.214	1.224	1.237	1.236	1.244	1.247	1.255	1.262	1.264 1.264	1.268	1.275	1.278	1.286	1.297	1.306	1.325	1.340	1.285	1.199	1.218 1.233	1.246	1.259	1.260	1.263	1.266	1.273	1.276	1.280	1.283	1.287
v (cm ⁻¹ )	1069.6 1071.5 1073.5 1075.4	1077.3 1079.3 1081.2	1083.1	1088.9	1092.8	1094.7	1098.5	1102.4	1104.3	1108.2	1112.0	1114.0	1117.8	1121.7	1123.6	1127.5	1129.4	1133.3	1137.1	1139.0	1142.9	1146.8	1148.7	1152.6	1156.4	1158.3	1162.2	1164.1	1168.0	1169.9	1173.8	1177.6	1181.5
×	0.003	0.003	0.003	0.00	0.003	0.000	0.008	0.010	0.011	0.015	0.024	0.036	0.047	0.097	0.075	0.106	0.313	0.829	1.244	1.259	0.973	0.883	0.779	0.557	0.163	0.077	0.015	0.00	0.00	000	0.00	800	0.00
=	1.405 1.409 1.413 1.417	1.422 1.427 1.432	1.438	1.456	1.469	1.485	1.494	1.515	1.527	1.556	1.596	1.616 1.635	1.662	1.709	1.742	1.908	2.208	2.327	1.654	1.343	1.067	0.948	0.807	0.602	0.654	0.746	0.898	0.948	1.019	1.045	1.085	1.115	1.139
v (cm ⁻¹ )	955.8 957.7 959.7 961.6	963.5 965.4 967.4	969.3	975.1	978.9	980.9 982.8	984.7	988.6	990.5 992.5	994.4 996.3	998.2	1000.2 1002.1	1004.0	1000.0	1009.8	1013.7	1015.6	1019.5	1023.3	1025.2	1029.1	1033.0	1034.9 1036.8	1038.7	1042.6	1044.5	1048.4	1050.3	1054.2	1056.1	1060.0	1063.8	1067.7
<u> </u>	0.138 0.149 0.161 0.176	0.188	0.220	0.209	0.203	0.191	0.182	0.162	0.153	0.126	0.096	0.082	0.059	0.031	0.035	0.023	0.019	0.016	0.013	0.013	0.011	0.008	0.008	0.007	0.000	0.005	0.0	0.0 4.0 4.0	0.002	0.002	0.00	0.003	0.003
=	1.448 1.452 1.451 1.449	1.442 1.430 1.417	1.399	1.350	1.329	1.321	1.301	1.281	1.272 1.267	1.262 1.259	1.261	1.263 1.266	1.273	1.285	1.293	1.308	1.318	1.320	1.327	1.329	1.335	1.341	1.34	1.350	1.355	1.358	1.365	1.368	1.375	1.378	1.386	1.394	1.401
v (cm ⁻¹ )	723.4 729.2 734.9 740.7	746.5 752.3 758.1	763.9	781.2	792.8	798.6 804.4	810.2	821.7	827.5 833.3	839.1 844.9	850.7	856.5 862.2	868.0	879.6 879.6	885.4 891.2	897.0	903.7	905.6	909.5	911.4	915.3	919.2	921.1 923.0	924.9	928.8	930.7	934.6	936.5	940.4	942.3 944.2	946.2	950.0	953.9
۷.	0.000	0000	000	300	000	000	0.00	80.0	000	0.001	0.002	0.002	0.001	000	0.002	0.002	0.00	0.008	0.012	0.013	0.018	0.025	0.028	0.038	0.04	0.065	0.106	0.142	0.301	0.281	0.153	0.132	0.128
=	1.392 1.392 1.394 1.395	1.398 1.401 1.403	1.406	1.411	1.416	1.417	1.421	1.425	1.428	1.432	1.434	1.436	1.440	4. 4. 4. 4. 5.	1.448	1.457	1.401 1.464	1.468	1.476	1.481	1.490	1.502	1.509	1.520	1.532	1.552	1.582	1.598	1.528	1.413	1.382	1.402	1.430
v (cm ⁻¹ )	392.5 394.5 396.4 398.3	405.1 410.9 416.7	422.4	439.8	445.6	457.2 463.0	468.7	480.3	486.1 491.9	497.7 503.5	509.2	515.0 520.8	526.6	538.2	544.0 549.8	555.5	561.3 567.1	572.9	584.5	590.3 596.1	601.8	613.4	619.2 625.0	630.8	636.6 642.3	648.1	659.7	665.5	677.1	682.9 688.6	694.4	706.0	717.6
۷.	0.002 0.003 0.006	0.003	0.00	0.00	0.00	0.00	0.000	0.011	0.011	0.013	0.015	0.016	0.020	0.029	0.034	0.054	0.070	0.115	0.146	0.143	0.098	0.046	0.032	0.017	0.012	0.000	0.00	0.005	0.0	0.003	0.00	0.002	0.002
-	1.411 1.412 1.413 1.415	1.415 1.416 1.416	1.419	1.421	1.422	1.425 1.426	1.428	1.431	1.432	1.435	1.440	1.442 1.446	1.448	1.456	1.460	1.469	1.472	1.459	1.408	1.375	1.327	1.325	1.333	1.349	1.355	1.365	1.373	1.376	1.381	1.383	1.386	1.388	1.390
v (cm-1)	278.7 280.7 282.6 284.5	286.5 288.5 290.3	292.2	298.0 298.0	301.9	303.8 305.7	307.7	311.5	313.5 315.4	317.3	321.2	323.1 325.0	327.0	330.8	332.7	336.6	338.3 340.5	342.4	346.3	348.2 350.1	352.0	355.9	357.8 359.8	361.7	363.6 365.5	367.5	371.3	373.3	377.1	379.0	382.9	386.8 286.8 7	390.6
	0.144 0.143 0.142 0.128	0.108	0.080	0.046	0.033	0.029	0.026	0.025	0.028	0.029	0.022	0.018	0.009	0.003	0.003	0.003	9.00	0.003	0.002	0000	0.000	0.00	0.0 20.00 4.00 20.00	0.000	0.003	0.003	0.002	000	0.00	000	000	0.003	0.002
-	1.408 1.391 1.372 1.359	1.348 1.338 1.336	1.337	1.336	1.343	1.349	1.355	1.361	1.364	1.364	1.363	1.362 1.363	1.364	1.369	1.372	1.375	1.383	1.384	1.387	1.390 1.392	1.394	1.396	1.396 1.392	1.392	1.397	1.399	1.400	1.401	1.405	1.408	1.409	1.409	1.409
v (cm ⁻¹ )	164.9 166.9 168.8 170.7	172.6 174.6 176.5	178.4	184.2	188.1	190.0 191.9	193.9	197.7	199.7 201.6	203.5 205.4	207.4	209.3 211.2	213.2	217.0	218.9 220.9	222.8	226.7	228.6	232.4	234.4 236.3	238.2	242.1	244.0 245.9	247.9	249.8	253.7	257.5	259.4 261.4	263.3	265.2 267.2	269.1	273.0	276.8
×	0.000 0.036 0.064 0.092	0.117	0.073	0.026	0.023	0.029	0.044	0.061	0.069	0.073	0.082	0.082	0.098	0.096	0.092	0.085	0.030	0.070	0.058	0.046	0.039	0.025	0.016	0.017	0.025	0.031	0.047	0.055	0.070	0.078	0.098	0.121	0.140
	1.538 1.540 1.535 1.531																															1.456	
v (cm ⁻¹ )	51.1 53.0 55.0 56.9	58.8 60.8 62.7	64.6	70.4	74.3	76.2 78.1	80.1	83.9	85.8 87.8	89.7 91.6	93.6	95.5 97.4	99.3	103.2	105.1 107.1	109.0	112.8	114.8	118.6	120. <b>6</b> 122.5	124.4	128.3	130.2 132.1	134.1	137.9	139.9	143.7	145.6 147.6	149.5	151.4 153.4	155.3	159.1	163.0
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<u> </u>	0.000	0000	0.000	989	0.00	0.000	000	38		0000	0.000	0.000	0.000	0.00	90.0	90.0	38	38	000	0.00	0.000	0.000	0.000	0.00	0.00	0.001	0.001	0.00		0.00	0.00	0.00	0.00	98	36	0.00	0.001	0.00	0.00	300	0.001	0.001	0.00	0.002	0.00	0.000	000			
_ c	1.275	1.276 1.276	1.277	1.278	1.279	1.279	1.280	1.201	1 282	1.282	1.283	1.283	1.284	1.284	1.284	1.285	1 286	1 286	1.287	1.287	1.288	1.288	1.288	1.289	1.289	1.290	1.290	1.290	1 290	1.291	1.291	1.292	1.292	1.292	1 293	1.293	1.294	1.294	1.294	1.294	1.295	1.295	1.295	1 205	1.295	1.295	1.295			
v (cm ⁻¹ )	3685.3	3691.1 3696.8	3702.6	3708.4	3720.0	3725.8	3731.6	27/2 1	3748.9	3754.7	3760.5	3766.3	3772.1	3777.9	3783.6	3/89.4	3801.0	3806.8	3812.6	3818.4	3824.2	3829.9	3835.7	3841.5	3847.3	3853.1	3858.9	3804.7	3876.2	3882.0	3887.8	3893.6	3899.4	3905.2	3916.7	3922.5	3928.3	3934.1	3939.9	3951.5	3957.3	3963.0	3968.8	39/4.6	3986.2	3992.0	3997.8			
×	0.080	0.070	0.055	0.049	0.039	0.035	0.032	0.020	0.021	0.016	0.016	0.015	0.014	0.013	0.012	0.011	0.010	0.00	0.007	0.006	0.005	0.004	0.004	0.003	0.002	0.002	0.002	300	300	0.00	0.000	0.000	0.000	900	300	0.00	0.000	0.00	000	000	0.000	0.000	0.000	38	0.000	0.000	900	0.00	0.000	2000
_ c	1.101	1.112	1.132	1.140	1.156	1.162	25.5	1.109	1.17	1.186	1.191	1.195	1.198	1.202	1.206	5.70	1217	1 217	1.220	1.222	1.225	1.227	1.230	1.232	1.235	1.237	1.239	1.241	1245	1.247	1.248	1.250	1.252	1.253	1 256	1.258	1.259	1.260	1.261	1264	1.265	1.266	1.267	260	1.269	1.270	1.271	1.272	1.273	-
v (cm ⁻¹ )	3343.8	3349.6	3361.2	3367.0	3378.6	3384.4	3390.1	3401.7	3407.5	3413.3	3419.1	3424.9	3430.6	3436.4	3442.2	3448.0	3450.6	3465.4	3471.2	3476.9	3482.7	3488.5	3494.3	3500.1	3505.9	3511.7	3517.4	3523.2	3534.8	3540.6	3546.4	3552.2	3558.0	3563.7	3575 3	3581.1	3586.9	3592.7	3598.5	3610.0	3615.8	3621.6	3627.4	3630.0	364.8	3650.5	3656.3	3667.9	3673.7	2
×	0.059	0.057	0.057	0.057	0.058	0.059	0.060	0.00	0.00	0.071	0.076	0.082	0.088	0.095	0.103	0.113	0.125	0.173	0.163	0.180	0.199	0.219	0.241	0.262	0.281	0.299	0.310	0.317	0.320	0.308	0.296	0.282	0.267	0.251	0.238	0.219	0.214	0.214	0.218	0.245	0.267	0.287	0.303	0.303	0.276	0.238	0.198	0.134	0.112	2,22.5
=	1.346	1.361	1.378	1.384	1.391	1.397	1.405	1.412	1.477	1.434	1.434	4.	1.446	1.456	1.462	1.4/3	1.470	1.476	1.479	1.479	1.486	1.483	1.485	1.474	1.457	1.414	1.390	1.5/1	1.325	1.314	1.295	1.257	1.247	1.241	1 251	1.264	1.269	1.275	1.265	1.278	1.269	1.250	1.233	1.196	1.091	1.066	1.065	1.078	1.087	1.22
v (cm ⁻¹ )	3002.4	3008.2 3014.0	3019.8	3025.6	3037.1	3042.9	3048.7	3060.3	3066.3	3071.9	3077.6	3083.4	3089.2	3095.0	3100.8	3106.6	3118.2	3173.0	3129.7	3135.5	3141.3	3147.1	3152.9	3158.7	3164.5	3170.2	3176.0	2101.6	3193.4	3199.2	3205.0	3210.7	3216.5	3222.3	3233 9	3239.7	3245.5	3251.3	3257.0	3268.6	3274.4	3280.2	3286.0	3.1626	3303.3	3309.1	3314.9	3326.5	3332.3	4.000
-×	0.003	0.002	0.000	0.000	0.000	0.000	0.00	9.0	000	0.002	0.003	0.004	0.005	90.0	0.008	0.000	0.012	2100	0.021	0.027	0.033	0.043	0.056	0.078	0.114	0.185	0.211	0.123	0.073	0.066	990.0	0.068	0.071	0.076	0.082	0.097	0.105	0.10	0.111	0.128	0.132	0.134	0.139	0.14	0.142	0.109	0.102	0.127	0.100	2222
E	1.386	1.388	1.393	1.396	1.401	1.403	1.406	1.409	1415	1.417	1.421	1.424	1.428	1.432	1.436	1.441	1.450	1.456	1.463	1.470	1.480	1.489	1.501	1.506	1.514	1.504	1.380	1.203	1.384	1.393	1.404	1.412	1.420	1.426	1.436	1.436	1.425	1.420	1.419	1.418	1.415	1.409	1.391	1.383	1.342	1.343	1.362	1.352	1.314	2
v (cm ⁻¹ )	2661.0	2666.8 2672.6	2678.4	2684.1	2695.7	2701.5	2707.3	2718.0	2774 6	2730.4	2736.2	2742.0	2747.8	2753.6	2759.4	2,69.2	27767	2782 5	2788.3	2794.1	2799.9	2805.7	2811.5	2817.2	2823.0	2828.8	2834.6	2840.4	2852.0	2857.7	2863.5	2869.3	2875.1	2880.9	2892.5	2898.3	2904.0	2909.8	2915.6	2927.2	2933.0	2938.8	2944.5	2950.3	2961.9	2967.7	2973.5	2985.1	2990.8	20000
×	0.001	000	0.001	0.00	0.00	0.001	0.00	3.6	300	000	0.00	0.001	0.001	0.00	0.00	0.00	300	0.00	0000	9000	0.007	0.000	0.003	0.003	0.003	0.003	0.003	30.0	0000	0.00	0.011	0.016	0.022	0.023	0.019	0.015	0.013	0.012	0.012	0.012	0.013	0.013	0.013	0.014	0.014	0.011	0.010	0.008	0.007	7777
_ c	1.362	1.362	1.364	1.364	1.365	1.366	1.366	1.367	1368	1.368	1.369	1.369	1.370	1.371	1.372	27.7	1 375	1 376	1.378	1.377	1.375	1.374	1.375	1.377	1.378	1.380	1.382	1.364	1.386	1.387	1.389	1.390	1.388	1.381	1376	1.376	1.377	1.379	1.379	1.382	1.383	1.382	1.382	1.383	1.381	1.381	1.381	1.382	1.383	
v (cm ⁻¹ )	2319.6	2325.4	2336.9	2342.7	2354.3	2360.1	2365.9	0.17.62	2383.2	2389.0	2394.8	2400.6	2406.4	2412.2	2417.9	2423.7	2425.3	2441 1	2446.9	2452.7	2458.5	2464.2	2470.0	2475.8	2481.6	2487.4	2493.2	2499.0	2510.5	2516.3	2522.1	2527.9	2533.7	2539.5	2551.0	2556.8	2562.6	2568.4	25/4.2	2585.8	2591.6	2597.3	2603.1	2608.9	2620.5	2626.3	2632.1	2643.6	2649.4	1
×	0.002	0.002	0.001	0.00	0.001	0.001	0.001	9.6	000	0.001	0.001	0.001	0.000	0.000	0.001	0.00	0.001	0.00	0.001	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	200.0	0.00	0.001	0.001	0.001	0.001	0.001	000	0.001	0.002	0.00	200.0	0.00	0.00	0.004	0.003	0.003	0.002	0.001	0.001	0.000	0.001	
u	1.346	1.346	1.347	1.347	1.348	1.348	1.348	2,70	1349	1.349	1.349	1.349	1.349	1.349	1.350	1.350	1 350	1 350	1.350	1.351	1.351	1.352	1.352	1.353	1.353	1.353	1.353	1.255	1.355	1.355	1.355	1.356	1.356	1.356	1.358	1.358	1.360	1.360	1.358	1.358	1.358	1.357	1.358	1.358	1.358	1.358	1.359	1.361	1.361	-222
v (cm ⁻¹ )	2059.2	20 <b>61</b> .1 2063.0	2064.9	2066.9	2070.7	2072.7	2074.6	20/02	2080.4	2082.3	2084.2	2086.2	2088.1	2090.0	2092.0	2005.9	2092.6	20007	2105.5	2111.2	2117.0	2122.8	2128.6	2134.4	2140.2	2146.0	2151.8	2151.3	2169.1	2174.9	2180.7	2186.5	2192.3	2198.0	2209.6	2215.4	2221.2	2227.0	2232.8	2244.3	2250.1	2255.9	2261.7	C./077	2279.1	2284.8	2290.6	2302.2	2308.0	2
ĸ	0.001	0.00	0.001	0.00	0.00	0.001	0.00	3.5	8.6	0.00	0.00	0.001	0.001	0.00	0.00	3.5	900	200	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	3 5	000	0.001	0.001	0.001	0.00	9.6	0.002	0.002	0.003	9.00	90.0	0.018	0.026	0.018	0.010	98	90.0	0.003	0.002	0.002	0.002	1222
=	1.338	1.339	1.339	1.340	1.340	1.341	1.341	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	24.	1.342	1.343	1.343	1.343	1.343	1.344	1.244	345	1 345	1.345	1.346	1.347	1.347	1.347	1.348	1.348	1.348	1.349	1.249	1.349	1.350	1.350	1.350	1.351	1.351	1.353	1.354	1.355	1.356	1.358	1.358	1.349	1.338	1.338	1.339	1.342	1.343	1.344	1.345	1.345	2.01
v (cm ⁻¹ )	1836.4	1842.2 1847.9	1853.7	1859.5	1871.1	1876.9	1882.7	1804.7	1900 0	1905.8	1911.6	1917.4	1923.2	1929.0	1934.7	1940.3	1952 1	1957 9	1963.7	1969.5	1975.3	1981.0	1986.8	1992.6	1998.4	2001.3	2003.2	2002.1	2009.0	2010.9	2012.9	2014.8	2016.7	2018.7	2020.5	2024.4	2026.4	2028.3	2030.2	2034.1	2036.0	2037.9	2039.9	2041.8	2045.7	2047.6	2049.5	2053.4	2055.3	1
ĸ	0.055	0.072	0.095	0.078	0.042	0.032	0.025	0.020	0.013	0.011	0.00	0.007	0.005	0.00	0.004	0.00	0.000	0000	0.001	0.001	0.000	0.000	0.000	0.000	0.00	0000	0000	300	0000	0.000	0.000	0.000	0.000	900	0000	0.000	0.000	0.000	900	0000	0.000	0.000	0.000		0.00	0.000	000	0.001	0.001	2000
п	1.329	1.332	1.294	1.273	1.271	1.272	1.277	1 286	1 289	1.293	1.296	1.298	1.300	1.303	1.305	1.306	1311	1312	1.314	1.316	1.317	1.318	1.319	1.320	1.322	1.322	1.323	1 325	1.326	1.326	1.327	1.328	1.328	1.329	1.330	1.330	1.331	1.331	1.332	1.333	1.334	1.334	1.334	1.335	1.336	1.336	1.336	1.337	1.337	
v (cm ⁻¹ )	1494.9	1500.7	1512.3	1518.1	1529.7	1535.4	1541.2	1557.8	1558.6	1564.4	1570.2	1576.0	1581.7	1587.5	1593.3	1.695.1	16107	1616.5	1622.3	1628.0	1633.8	1639.6	1645.4	1651.2	1657.0	1662.8	1668.5	1680.1	1685.9	1691.7	1697.5	1703.3	1709.1	1720.6	1726.4	1732.2	1738.0	1743.8	1755 3	1761.1	1766.9	1772.7	1778.5	17901	1795.9	1801.6	1807.4	1819.0	1824.8	2000

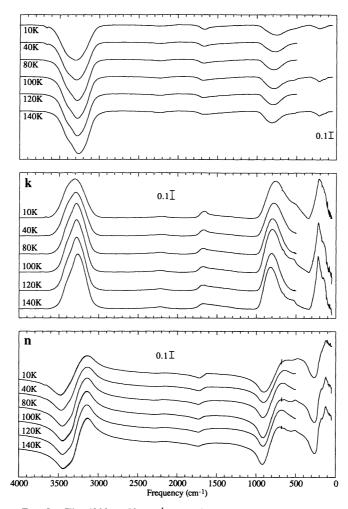


FIG. 5.—The 4000 to 50 cm $^{-1}$  transmission spectra and optical constants (n and k) of a pure  $H_2O$  ice at temperatures of 10, 40, 80, 100, 120, and 140 K. The original ice was deposited at 10 K.

٧.	0.002 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.	0.014 0.015 0.015 0.015
=	1.281 1.283 1.294 1.294 1.294 1.306 1.306 1.306 1.315 1.315 1.313 1.313 1.337 1.333 1.333 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344	1.348 1.348 1.348 1.347
v (cm ⁻¹ )	1737.5 1765.7 1766.7 1766.7 1766.7 1766.7 1766.7 1766.7 1799.2 1806.9 1817.8 1822.4 1837.8 1847.1 1847.4 1837.8 1847.1 1899.5 1899.5 1899.5 1992.7 1992.7 1992.7 1992.7 1969.0 1972.7 1969.0 1972.7 1972.7 1972.7 1972.7 1973.8 1973.7 1973.8 1973.7 1973.8 1973.8 1973.7 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 1973.8 19	2161.9 2169.6 2177.3 2185.0
<u> </u>	0.0014 0.0015 0.0016 0.0016 0.0017 0.0017 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023	0.032 0.037 0.030
=	1318 1318 1320 1320 1320 1322 1323 1323 1333 1333	1.279 1.279 1.278 1.279
v (cm ⁻¹ )	1282.3 1280.0 1290.0 1330.9 1330.9 1330.9 1338.6 1344.0 1351.7 1351.7 1351.7 1367.1 1374.9 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 1550.0 15	1705.6 1714.4 1722.1 1729.8
<u>×</u>	0.348 0.237 0.237 0.237 0.237 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135	0.011 0.011 0.012
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v (cm ⁻¹ )	827.0 834.8 834.8 834.8 850.2 857.9 887.9 887.9 887.9 996.5 911.9 996.5 973.4 973.6 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9	1251.4 1259.1 1266.8 1274.6
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F	1548 1546 1546 1546 1547 1547 1548 1549 1540 1533 1533 1533 1533 1533 1533 1533 153	1.213 1.195 1.176
v (cm ⁻¹ )	505.4 507.3 511.2 511.2 511.2 511.2 511.2 511.2 512.0 512.0 513.1 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0 513.0	803.9 811.6 819.3
<u>×</u>	0.034 0.035 0.035 0.035 0.044 0.052 0.053 0.053 0.053 0.053 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093	0.152 0.154 0.158 0.158
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v (cm ⁻¹ )	3 3993 3	497.7 499.6 501.5 503.5
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v (cm ⁻¹ )	277.8 287.4 283.6 283.6 283.6 283.6 283.6 293.2 293.2 293.2 300.9 300.9 300.9 300.9 300.9 310.6 310.6 311.4 311.4 311.4 311.4 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6 311.6	385.8 387.7 389.7
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v (cm ⁻¹ )	166.9 165.9 167.8 173.6 171.7 171.7 171.7 171.7 171.7 171.7 171.7 171.7 171.7 171.7 171.7 181.3 183.3 183.3 183.3 183.3 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8 196.8	272.0 273.9 275.8
×	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.323 0.323 0.339 0.341
u	1.733 1.734 1.735 1.736 1.737 1.738 1.739 1.765 1.765 1.765 1.766 1.771 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739 1.739	
v (cm ⁻¹ )	50.2 57.9 57.9 57.9 57.9 57.9 57.9 57.9 57.9	158.2 160.1 162.0

TABLE 5A—Continued

					LL JA-						
v (cm ⁻¹ )	n	_ k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2192.7	1.346	0.016	2648.0	1.377	0.002	3103.2	1.580	0.103	3558.4	1.085	0.047
2200.5	1.347	0.016	2655.7	1.378	0.002	3110.9	1.583	0.117	3566.2	1.094	0.039
2208.2	1.346	0.015	2663.4	1.379	0.002	3118.6	1.587	0.132	3573.9	1.102	0.033
2215.9	1.345	0.015	2671.1	1.380	0.002	3126.4	1.595	0.146	3581.6	1.109	0.027
2223.6	1.345	0.015	2678.8	1.381	0.001	3134.1	1.597	0.162	3589.3	1.117	0.022
2231.3	1.345	0.014	2686.6	1.382	0.002	3141.8	1.594	0.179	3597.0	1.125	0.018
2239.0	1.344	0.014	2694.3	1.383	0.001	3149.5	1.594	0.196	3604.7	1.132	0.014
2246.7	1.344	0.013	2702.0	1.384	0.001	3157.2	1.592	0.212	3612.5	1.139	0.012
2254.5	1.345	0.013	2709.7	1.386	0.001	3164.9	1.584	0.231	3620.2	1.146	0.009
2262.2	1.345	0.013	2717.4	1.387	0.001	3172.6	1.580	0.248	3627.9	1.153	0.007
2269.9	1.344	0.013	2725.1	1.388	0.002	3180.4	1.583	0.264	3635.6	1.159	0.006
2277.6	1.345	0.012	2732.8	1.389	0.002	3188.1	1.571	0.282	3643.3	1.167	0.005
2285.3	1.345	0.012	2740.6	1.391	0.002	3195.8	1.563	0.298	3651.0	1.173	0.008
2293.0	1.345	0.011	2748.3	1.392	0.002	3203.5	1.553	0.315	3658.7	1.176	0.012
2300.8	1.346	0.011	2756.0	1.393	0.002	3211.2	1.535	0.332	3666.5	1.175	0.014
2308.5	1.346	0.010	2763.7	1.395	0.002	3218.9	1.521	0.347	3674.2	1.174	0.010
2316.2	1.347	0.010	2771.4	1.396	0.002	3226.7	1.520	0.359	3681.9	1.177	0.005
2323.9	1.347	0.010	2779.1	1.398	0.002	3234.4	1.505	0.373	3689.6	1.181	0.004
2331.6	1.347	0.009	2786.9	1.400	0.002	3242.1	1.482	0.385	3697.3	1.184	0.001
2339.3	1.348	0.009	2794.6	1.401	0.003	3249.8	1.466	0.396	3705.0	1.188	0.000
2347.1	1.348	0.008	2802.3	1.403	0.002	3257.5	1.439	0.406	3712.8	1.193	0.000
2354.8	1.349	0.008	2810.0	1.404	0.002	3265.2	1.421	0.414	3720.5	1.197	0.000
2362.5	1.349	0.008	2817.7	1.406	0.002	3273.0	1.418	0.420	3728.2	1.200	0.000
2370.2	1.350	0.007	2825.4	1.408	0.002	3280.7	1.398	0.426	3735.9	1.204	0.000
2377.9	1.350	0.007	2833.2	1.410	0.003	3288.4	1.369	0.431	3743.6	1.207	0.000
2385.6	1.350	0.006	2840.9	1.411	0.003	3296.1	1.349	0.433	3751.3	1.209	0.000
2393.4	1.352	0.006	2848.6	1.413	0.003	3303.8	1.329	0.434	3759.1	1.212	0.000
2401.1	1.352 1.352	0.006	2856.3	1.415 1.417	0.003	3311.5	1.300	0.433	3766.8	1.214	0.000
2408.8		0.006 0.006	2864.0 2871.7	1.417	0.003	3319.3	1.296	0.429	3774.5	1.217	0.000
2416.5 2424.2	1.353	0.006	2879.4	1.420	0.003	3327.0 3334.7	1.277 1.251	0.425 0.421	3782.2 3789.9	1.219 1.221	0.000
2424.2	1.354	0.006	2887.2	1.425	0.003	3342.4	1.234	0.421	3797.6	1.223	0.000
2431.9	1.355	0.006	2894.9	1.428	0.003	3350.1	1.234	0.414	3805.3	1.225	0.000
2439.0	1.356	0.005	2902.6	1.420	0.003	3357.8	1.193	0.408	3813.1	1.223	0.000
2455.1	1.356	0.005	2910.3	1.434	0.003	3365.5	1.178	0.402	3820.8	1.227	0.000
2462.8	1.357	0.005	2918.0	1.436	0.003	3373.3	1.177	0.385	3828.5	1.229	0.000
2470.5	1.358	0.003	2925.7	1.440	0.003	3381.0	1.161	0.377	3836.2	1.232	0.000
2478.2	1.358	0.004	2933.5	1.443	0.004	3388.7	1.138	0.368	3843.9	1.232	0.000
2485.9	1.359	0.004	2933.3	1.447	0.004	3396.4	1.124	0.358	3851.6	1.235	0.000
2493.7	1.360	0.004	2948.9	1.451	0.005	3404.1	1.103	0.346	3859.4	1.236	0.000
2501.4	1.360	0.004	2956.6	1.456	0.006	3411.8	1.090	0.333	3867.1	1.238	0.000
2509.1	1.361	0.004	2964.3	1.460	0.007	3411.6	1.089	0.333	3874.8	1.239	0.000
2516.8	1.362	0.003	2972.0	1.465	0.008	3427.3	1.077	0.303	3882.5	1.241	0.000
2524.5	1.363	0.003	2979.8	1.470	0.009	3435.0	1.059	0.303	3890.2	1.242	0.000
2532.2	1.363	0.003	2987.5	1.475	0.010	3442.7	1.050	0.270	3897.9	1.243	0.000
2540.0	1.364	0.003	2995.2	1.480	0.012	3450.4	1.042	0.270	3905.7	1.244	0.000
2547.7	1.365	0.003	3002.9	1.486	0.012	3458.1	1.032	0.233	3913.4	1.246	0.000
2555.4	1.366	0.003	3010.6	1.492	0.017	3465.9	1.036	0.214	3921.1	1.247	0.000
2563.1	1.367	0.003	3018.3	1.498	0.019	3473.6	1.034	0.194	3928.8	1.248	0.000
2570.8	1.368	0.003	3026.0	1.505	0.022	3481.3	1.029	0.176	3936.5	1.249	0.000
2578.5	1.368	0.003	3033.8	1.514	0.026	3489.0	1.031	0.158	3944.2	1.250	0.000
2586.2	1.369	0.003	3041.5	1.520	0.030	3496.7	1.035	0.140	3951.9	1.251	0.000
2594.0	1.370	0.002	3049.2	1.528	0.036		1.037	0.125	3959.7	1.252	0.000
2601.7	1.371	0.002	3056.9	1.537	0.042	3512.1	1.043	0.111	3967.4	1.253	0.000
2609.4	1.372	0.002	3064.6	1.543	0.049	3519.9	1.053	0.098	3975.1	1.254	0.000
2617.1	1.373	0.002	3072.3	1.551	0.058	3527.6	1.059	0.086	3982.8	1.255	0.000
2624.8	1.374	0.002	3080.1	1.562	0.067	3535.3	1.064	0.075	3990.5	1.257	0.000
2632.5	1.375	0.002	3087.8	1.569	0.078	3543.0	1.071	0.065	3998.2	1.258	0.000
2640.3	1.376	0.002	3095.5	1.574	0.090	3550.7	1.077	0.055			3.000
2010.5		3.002	3073.3		3.070			3.033			

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Name
(cmr-1)         n         k         v (cm-1)         n         k (cm-1)         n           5001         1.549         0.037         8889         1.166         0.269         13141         1.339           503.9         1.545         0.033         8846         1.132         0.251         1321.8         1.349           511.7         1.545         0.033         8842         1.132         0.190         1342.1         1.341           511.7         1.545         0.034         889.7         1.132         0.190         1342.1         1.341           513.4         1.540         0.046         897.5         1.128         0.190         1342.1         1.342         0.211         1.342         0.134         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.342         1.34
(cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         (cm ⁻¹ )         n         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k
(cm ¹ )         n         k         v (cm ¹ )         n         k           500.1         1.349         0.037         858.9         1.145         0.250           507.8         1.547         0.030         866.6         1.153         0.251           517.5         1.547         0.033         884.3         1.145         0.230           517.5         1.548         0.043         889.7         1.132         0.190           519.4         1.549         0.044         892.5         1.132         0.190           519.4         1.540         0.045         90.2         1.132         0.190           529.2         1.540         0.046         90.2         1.131         0.118           529.2         1.540         0.044         90.2         1.132         0.190           538.7         1.540         0.044         90.2         1.131         0.118           538.7         1.540         0.045         912.9         1.132         0.091           538.7         1.540         0.044         920.6         1.113         0.013           538.7         1.540         0.045         920.6         1.113         0.013
(cm ¹ )         n         k         v (cm ⁻¹ )         n           500.1         1.549         0.037         88.89         1.145           507.8         1.545         0.033         88.43         1.145           515.7         1.545         0.033         88.43         1.145           515.7         1.545         0.034         88.97         1.137           515.4         1.542         0.034         88.97         1.128           525.2         1.540         0.044         89.75         1.128           520.2         1.540         0.048         90.52         1.127           534.8         1.540         0.048         90.52         1.137           534.8         1.541         0.048         928.3         1.136           556.0         1.540         0.048         928.3         1.136           558.1         1.540         0.048         928.3         1.136           558.2         1.540         0.055         959.2         1.170           558.2         1.540         0.056         990.0         1.181           558.2         1.552         0.056         990.0         1.181           558.2
(cm ¹ )         n         k         v (cm ⁻¹ )           500.1         1.549         0.037         88.89           507.8         1.545         0.037         88.89           515.7         1.545         0.036         88.20           515.7         1.545         0.039         88.20           515.7         1.545         0.043         889.7           519.4         1.540         0.043         889.7           527.1         1.540         0.044         90.52           530.2         1.540         0.049         897.5           530.2         1.540         0.049         920.6           538.7         1.540         0.049         920.6           538.7         1.541         0.048         920.6           556.2         1.541         0.048         920.6           556.2         1.547         0.059         943.7           556.2         1.552         0.058         96.9           556.2         1.553         0.063         990.0           556.2         1.558         0.064         900.2           556.2         1.558         0.069         990.0           560.2         1.55
(cm ¹ )         n         k           500.1         1.349         0.037           507.8         1.549         0.037           507.8         1.545         0.036           515.7         1.545         0.036           515.7         1.545         0.036           515.7         1.549         0.045           527.2         1.540         0.046           527.2         1.540         0.046           527.2         1.540         0.047           538.7         1.540         0.048           538.7         1.540         0.048           538.7         1.540         0.047           556.2         1.541         0.047           558.2         1.540         0.048           558.2         1.541         0.048           558.2         1.547         0.056           556.2         1.552         0.058           558.1         1.552         0.058           558.2         1.552         0.058           558.1         1.552         0.058           558.2         1.560         0.066           561.8         1.552         0.058           562.1
(cm.1) n 500.1 1549 507.8 1545 515.5 1547 515.5 1547 515.6 1546 523.2 1540 530.9 1541 533.4 1542 530.1 1540 530.2 1541 534.8 1541 534.8 1541 535.1 1544 536.2 1551 536.2 1561 537.1 1544 538.1 1552 538.1 1586 604.2 1589 605.1 1589 605.2 1589 605.1 1589 605.2 1589 605.1 1589 605.1 1589 605.1 1589 605.1 1589 605.1 1589 605.1 1589 605.1 1589 605.1 1589 605.1 1589 607.1 15
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(cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k (cm ⁻¹ )           500.1         1513         0.014         888.9         1174         0.313         1341.1           507.3         1515         0.004         886.6         1177         0.22         1331.8           507.3         1517         0.017         882.0         1137         0.22         1331.8           515.5         1518         0.013         889.7         1110         0.12         1331.8           537.1         1518         0.013         889.7         1111         0.12         1331.8           537.1         1518         0.013         889.7         1111         0.12         1331.8           537.1         1520         0.017         90.2         1111         0.114         1332.9           538.7         1527         0.020         92.8         1117         0.102         1332.9           538.7         1527         0.020         92.2         1114         0.13         144.4           550.2         1520         0.020         93.2         1144         145.3           538.7         1530         0.020         92.2         1114 <t< th=""><th><u> </u></th><th>0.0018 0.0022 0.0022 0.0022 0.0023 0.0033 0.0034 0.0047 0.0052 0.0034 0.0052 0.0034 0.0052 0.0034 0.0052</th></t<>	<u> </u>	0.0018 0.0022 0.0022 0.0022 0.0023 0.0033 0.0034 0.0047 0.0052 0.0034 0.0052 0.0034 0.0052 0.0034 0.0052
Cem-1         n         k         v (cm-1)         n         k           500.1         1.513         0.014         88.89         1.174         0.313           503.9         1.515         0.007         86.66         1.157         0.292           515.7         1.517         0.014         88.89         1.114         0.133           515.5         1.517         0.014         88.97         1.114         0.198           519.4         1.517         0.017         88.97         1.114         0.198           520.2         1.518         0.013         88.97         1.114         0.198           520.2         1.518         0.014         90.22         1.111         0.174           520.2         1.520         0.016         912.9         1.111         0.174           520.2         1.520         0.016         912.9         1.111         0.174           530.2         1.527         0.022         98.23         1.111         0.114           540.2         1.533         0.022         98.23         1.111         0.114           550.2         1.534         0.039         99.23         1.114         0.194	11	
(cm ⁻¹ )         n         k         v (cm ⁻¹ )         n           500.1         1.513         0.014         888.9         1.174           503.9         1.515         0.007         866.6         1.157           507.8         1.517         0.014         888.9         1.142           511.7         1.517         0.017         889.7         1.110           515.2         1.519         0.013         889.7         1.110           520.2         1.516         0.017         889.7         1.110           530.2         1.518         0.027         887.5         1.111           530.2         1.516         0.017         889.7         1.110           530.2         1.520         0.019         905.2         1.111           530.2         1.520         0.020         938.7         1.116           530.2         1.530         0.022         938.2         1.116           530.2         1.530         0.022         938.2         1.116           530.2         1.530         0.022         938.2         1.116           530.2         1.530         0.022         938.2         1.116           540.2	v (cm ⁻¹ )	1314.1 1329.5 1329.5 1329.5 1330.4 1360.4 1445.3 1531.9 1531.9 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 1661.3 16
(cm ⁻¹ )         n         k         v (cm ⁻¹ )           500.1         1.513         0.014         88.8.9           503.9         1.515         0.007         866.6           507.8         1.517         0.017         882.0           515.7         1.517         0.017         882.0           515.7         1.517         0.017         882.0           515.7         1.518         0.027         897.5           520.2         1.518         0.027         897.5           530.4         1.520         0.019         905.2           538.7         1.529         0.019         920.6           538.7         1.527         0.029         943.7           542.5         1.530         0.029         943.7           550.2         1.535         0.029         943.7           550.2         1.535         0.029         943.7           550.2         1.530         0.029         943.7           550.2         1.535         0.029         943.7           550.2         1.540         0.039         96.9           550.2         1.540         0.039         96.9           560.2         1.5	<b>×</b>	0.232 0.232 0.232 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0.1326 0
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v (cm ⁻¹ )	1737.5 1745.2 1745.2 1760.7 1760.7 1760.7 1760.7 1760.7 1760.7 1790.7 1890.8 1877.8 1890.8 1877.8 1890.8 1877.8 1890.7 1890.7 1890.7 1890.7 1890.7 1890.7 1890.7 1890.7 1890.7 1890.7 1890.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 1990.7 19	21/7.3
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=	1.320 1.322 1.323 1.323 1.324 1.326 1.328 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333 1.333	1.287
v (cm ⁻¹ )	1282.3 1280.0 1280.0 1280.0 1305.4 1313.1 1313.1 1320.9 1330.9 1344.0 1351.7 1360.0 1360.0 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 1444.3 14	1722.1
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v (cm ⁻¹ )	827.0 834.8 834.8 834.8 836.2 837.9 837.9 837.9 837.9 837.9 837.9 837.9 837.9 837.9 837.9 837.1 996.5 907.7 1010.2 1010.2 1010.2 1010.2 1010.2 1010.2 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3	1266.8 1274.6
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v (cm ⁻¹ )		387.7 389.7
<u></u>	0.343 0.343 0.344 0.345 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347 0.347	0.193
ء	1.723 1.724 1.725 1.727 1.728 1.728 1.327 1.327 1.327 1.327 1.328 1.327 1.327 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328 1.328	1.242 1.244
v (cm ⁻¹ )		273.9 275.8
	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.	0.343
-	1.668 1.744 1.745 1.745 1.746 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748 1.748	1.743
v (cm ⁻¹ )	50.2 50.2 50.2 50.2 50.2 50.2 50.3 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1	160.1

TABLE 5D—Continued

v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )           2192.7         1.355         0.018         2648.0         1.385         0.002         3103.2         1.648         0.104         3558.4	 ) n	1-
2192.7 1.355 0.018 2648.0 1.385 0.002 3103.2 1.648 0.104 1.3558.4		k
	1.091	0.022
2200.5 1.355 0.019 2655.7 1.386 0.002 3110.9 1.656 0.123 3566.2	1.100	0.018
2208.2 1.354 0.019 2663.4 1.387 0.002 3118.6 1.665 0.145 3573.9	1.108	0.015
2215.9 1.353 0.020 2671.1 1.389 0.002 3126.4 1.678 0.167 3581.6	1.114	0.011
2223.6 1.352 0.020 2678.8 1.390 0.002 3134.1 1.683 0.192 3589.3	1.121	0.009
2231.3 1.351 0.019 2686.6 1.391 0.002 3141.8 1.682 0.218 3597.0	1.128	0.007
2239.0 1.350 0.019 2694.3 1.392 0.002 3149.5 1.682 0.245 3604.7	1.134	0.005
2246.7 1.350 0.018 2702.0 1.394 0.001 3157.2 1.679 0.272 3612.5	1.140	0.004
2254.5 1.350 0.018 2709.7 1.395 0.002 3164.9 1.667 0.300 3620.2	1.146	0.003
2262.2 1.350 0.017 2717.4 1.396 0.002 3172.6 1.659 0.327 3627.9	1.151	0.001
2269.9 1.349 0.016 2725.1 1.398 0.002 3180.4 1.660 0.351 3635.6	1.156	0.000
2277.6 1.350 0.015 2732.8 1.399 0.002 3188.1 1.641 0.376 3643.3	1.161	0.000
2285.3 1.349 0.014 2740.6 1.401 0.002 3195.8 1.627 0.400 3651.0	1.166	0.000
2293.0 1.350 0.014 2748.3 1.402 0.002 3203.5 1.611 0.423 3658.7	1.170	0.000
2300.8 1.351 0.013 2756.0 1.404 0.002 3211.2 1.584 0.447 3666.5	1.174	0.000
2308.5 1.351 0.013 2763.7 1.406 0.002 3218.9 1.564 0.468 3674.2	1.177	0.000
2316.2 1.351 0.012 2771.4 1.408 0.002 3226.7 1.559 0.486 3681.9	1.180	0.000
2323.9 1.351 0.012 2779.1 1.409 0.002 3234.4 1.537 0.505 3689.6	1.184	0.000
2331.6 1.352 0.012 2786.9 1.411 0.002 3242.1 1.501 0.525 3697.3	1.188	0.000
2339.3 1.352 0.011 2794.6 1.413 0.002 3249.8 1.474 0.541 3705.0	1.191	0.000
2347.1 1.353 0.011 2802.3 1.414 0.002 3257.5 1.432 0.557 3712.8	1.194	0.000
2354.8 1.353 0.011 2810.0 1.416 0.002 3265.2 1.399 0.570 3720.5	1.197	0.000
2362.5 1.354 0.010 2817.7 1.418 0.002 3273.0 1.384 0.575 3728.2	1.200	0.000
2370.2 1.354 0.009 2825.4 1.420 0.002 3280.7 1.348 0.579 3735.9	1.202	0.000
2377.9 1.355 0.009 2833.2 1.422 0.002 3288.4 1.299 0.579 3743.6	1.205	0.000
2385.6 1.355 0.008 2840.9 1.425 0.002 3296.1 1.264 0.572 3751.3	1.207	0.000
2393.4	1.209	0.000
2401.1	1.211	0.000
2408.8   1.357   0.007   2864.0   1.433   0.002   3319.3   1.177   0.527   3774.5	1.211	0.000
2416.5 1.358 0.007 2871.7 1.435 0.002 3327.0 1.153 0.508 3782.2	1.215	0.000
2424.2 1.359 0.007 2879.4 1.438 0.002 3334.7 1.123 0.488 3789.9	1.218	0.000
2431.9 1.359 0.007 2887.2 1.441 0.002 3342.4 1.106 0.469 3797.6	1.220	0.000
2439.6 1.360 0.007 2894.9 1.444 0.003 3350.1 1.091 0.449 3805.3	1.221	0.000
2447.4 1.361 0.007 2902.6 1.447 0.003 3357.8 1.069 0.431 3813.1	1.223	0.000
2455.1 1.362 0.007 2910.3 1.451 0.003 3365.5 1.057 0.414 3820.8	1.225	0.000
2462.8 1.362 0.006 2918.0 1.454 0.003 3303.3 1.057 0.414 3820.8	1.225	0.000
2470.5 1.363 0.006 2925.7 1.458 0.003 3381.0 1.048 0.381 3836.2	1.228	0.000
2478.2 1.364 0.006 2933.5 1.462 0.004 3388.7 1.030 0.365 3843.9	1.228	
		0.000
	1.231	0.000
2493.7 1.365 0.005 2948.9 1.471 0.005 3404.1 1.002 0.329 3859.4	1.232	0.000
2501.4 1.366 0.005   2956.6 1.476 0.006   3411.8 0.992 0.310   3867.1	1.234	0.000
2509.1 1.367 0.004 2964.3 1.481 0.007 3419.6 0.996 0.290 3874.8	1.235	0.000
2516.8 1.368 0.004 2972.0 1.486 0.008 3427.3 0.988 0.269 3882.5	1.237	0.000
2524.5 1.369 0.004 2979.8 1.492 0.009 3435.0 0.976 0.246 3890.2	1.238	0.000
2532.2 1.370 0.004 2987.5 1.498 0.010 3442.7 0.973 0.224 3897.9	1.239	0.000
2540.0 1.370 0.004 2995.2 1.504 0.012 3450.4 0.972 0.201 3905.7	1.240	0.000
2547.7 1.371 0.003 3002.9 1.510 0.013 3458.1 0.971 0.177 3913.4	1.242	0.000
2555.4 1.372 0.003 3010.6 1.517 0.015 3465.9 0.980 0.156 3921.1	1.243	0.000
2563.1 1.373 0.003 3018.3 1.524 0.017 3473.6 0.986 0.135 3928.8	1.244	0.000
2570.8 1.374 0.003 3026.0 1.532 0.020 3481.3 0.991 0.116 3936.5	1.245	0.000
2578.5 1.375 0.003 3033.8 1.542 0.023 3489.0 1.001 0.099 3944.2	1.246	0.000
2586.2 1.376 0.003 3041.5 1.551 0.026 3496.7 1.012 0.084 3951.9	1.247	0.000
2594.0 1.377 0.003 3049.2 1.561 0.031 3504.4 1.021 0.071 3959.7	1.248	0.000
2601.7 1.378 0.003 3056.9 1.572 0.036 3512.1 1.032 0.060 3967.4	1.249	0.000
2609.4 1.379 0.003 3064.6 1.583 0.042 3519.9 1.045 0.052 3975.1	1.250	0.000
2617.1 1.380 0.002 3072.3 1.595 0.050 3527.6 1.055 0.044 3982.8	1.251	0.000
2624.8 1.381 0.002 3080.1 1.610 0.059 3535.3 1.064 0.037 3990.5	1.253	0.000
2632.5 1.383 0.002 3087.8 1.624 0.071 3543.0 1.074 0.031 3998.2	1.255	0.000
2640.3 1.384 0.002 3095.5 1.635 0.086 3550.7 1.082 0.026		

																						_	_						-			_					_						_			—
<u>×</u>	0.017	0.014	0.0	0.007	0.005	0.002	0.00	800	0.000	000	88	0.00	0.000	0.00	98	000	0.000	0.00	0.00	98	88	000	0.00	0.00	98	0000	0.000	0.000	000	000	0.000	0.00	30	0.00	98	800	0.00	0.00	38	0.00	0.000	000	0.08	0.00	0.000	
=	1 103	1.11	1.118	1.131	1.137	1.148	1.154	1.163	1.168	1.172	1.1//	1.183	1.186	1.190	1.193	199	1.202	1.204	1.207	1.209	1.211	1.215	1.217	1.219	1.222	1.225	1.227	1.228	1.230	1.233	1.234	1.236	1.23/	1.240	1.241	1.243	1.244	1.245	1.246	1.249	1.250	1.251	1.253	1.254	1.256	l
v (cm ⁻¹ )	3567.1	3574.8	3590.3	3598.0	3605.7	3621.1	3628.8	3644.3	3652.0	3659.7	3675 1	3682.9	3690.6	3698.3	3706.0	3721.4	3729.2	3736.9	3744.6	3752.3	3767.7	3775.4	3783.2	3790.9	3798.6	3814.0	3821.7	3829.5	3837.2	3852.6	3860.3	3868.0	3883.5	3891.2	3898.9	3914.3	3922.0	3929.8	3937.5	3952.9	3960.6	3968.3	3983.8	3991.5	3999.2	
	0.150	0.173	0.199	0.253	0.282	0.336	0.364	0.414	0.438	0.460	0.481	0.521	0.539	0.554	0.568	0.585	0.587	0.583	0.575	0.562	0.545	0.506	0.484	0.464	0.444	0.407	0.390	0.371	0.358	0.322	0.300	0.284	0.203	0.218	0.195	0.151	0.130	0.112	0.095	0.069	0.058	0.049	0.035	0.029	0.024	
  -	1.672	1.679	1.083	1.686	1.683	1.668	1.657	1.628	1.610	1.590	545	1.520	1.493	45. 45.	1.432	1.362	1.324	1.287	1.251	1.216	1.183	1.135	1.115	1.099	20.1	1.060	1.049	1.039	1.029	1.007	0.999	0.992	0.926	0.976	0.975	0.982	0.988	0.996	96.1	1.027	1.038	1.048	1.069	1.078	1.087	
v (cm ⁻¹ )		3127.3	3142.7	3150.5	3158.2	3173.6	3181.3	3196.8	3204.5	3212.2	32276	3235.3	3243.1	3250.8	3258.5	3273.9	3281.6	3289.4	3297.1	3304.8	3320.2	3327.9	3335.6	3343.4	3351.1	3366.5	3374.2	3381.9	3389.7	3405.1	3412.8	3420.5	3426.0	3443.7	3451.4	3466.8	3474.5	3482.2	3490.0	3505.4	3513.1	3520.8	3536.3	3544.0	3551.7 3559.4	
<u> </u>	000	0.00	900	0.001	0.002	0.002	0.000	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.002	000	0.003	0.002	0.003	0.002	0.002	0.003	0.003	0.003	9,5	0.0	0.005	0.005	0.000	0.00	0.00	0.010	0.011	0.015	0.017	0.022	0.024	0.028	0.032	0.041	0.048	0.056	0.077	0.092	0.108	
=	1 394	1.395	1.396	1.400	1.401	1.404	1.405	1.408	1.410	1.412	1.415	1.416	1.418	1.420	1.422	1 426	1.428	1.431	1.433	1.436	1.439	1.44	1.448	1.451	1.454	1.461	1.466	1.469	1.474	1.483	1.488	1.493	1.505	1.511	1.518	1.532	1.540	1.548	1.557	1.578	1.589	1.68	1.626	1.639	1.652 1.662	
v (cm ⁻¹ )	2672.1	2679.8	2695.2	2702.9	2710.7	2726.1	2733.8	2749.2	2757.0	2764.7	2780 1	2787.8	2795.5	2803.3	2811.0	2826.4	2834.1	2841.8	2849.5	2857.3	2865.0	2880.4	2888.1	2895.8	2903.6	2919.0	2926.7	2934.4	2942.1	2957.6	2965.3	2973.0	2988.4	2996.1	3003.9	3019.3	3027.0	3034.7	3042.4	3057.9	3065.6	3073.3	3088.7	3096.5	3104.2	
۷.	0.020	0.020	0.019	0.018	0.017	0.016	0.014	0.014	0.013	0.012	0.012	0.012	0.011	0.010	0.010	0000	0.00	0.008	0.008	0.007	0.00	0.007	0.007	0.007	0.007	0.006	9000	0.005	0.005	0.005	0.004	90.0	2 2	0.00	90.0	0.00	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	
-	1 359	1.358	1.35/	1.356	1.356	1.355	1.356	1.357	1.357	1.357	1.35/	1.358	1.359	1.359	1.360	1.361	1.361	1.362	1.363	1.363	26.1	1.365	1.366	1.367	1.367	1.368	1.369	1.370	1.371	1.372	1.373	1.374	1.375	1.376	1.377	1.379	1.380	1.381	1.382	1.384	1.385	1.387	1.389	1.390	1.391	
v (cm ⁻¹ )	٠١``	2232.3				2278.6	2286.3	2301.7	2309.4	2317.2	2324.9	2340.3	2348.0	2355.7	2363.5	2378.9	2386.6	2394.3	2402.0	2409.7	2417.5	2432.9	2440.6	2448.3	2456.0	2471.5	2479.2	2486.9	2494.6	2510.1	2517.8	2525.5	2540.9	2548.6	2556.3	2571.8	2579.5	2587.2	2594.9	2610.4	2618.1	2625.8	2641.2	(1)	2656.7 2664.4	
¥.	0.013	0.011	300	0.007	0.00	90.0	90.0	0.03	0.002	0.00	0.00	0.0	0.002	0.002	0.002	00.0	0.00	0.002	000	000	300	0.002	0.002	0.002	0.002	0.002	0.003	0.003	000	90	0.00	0.005	0.00	0.00	0.007	80.0	0.00	0.010	0.011	0.013	0.014	0.015	0.018	0.018	0.019	0.020
	1.308	1.309	1.314	1.316	1.318	1.322	1.323	1.326	1.328	1.330	1.331	1.334	1.335	1.336	1.33/	1339	1.340	1.341	1.342	1.343	1.345	1.346	1.347	1.348	1.349	1.351	1.352	1.352	1.353	1.355	1.356	1.357	1.358	1.359	1.360	1.362	1.362	1.363	265.1	1.364	1.364	1.36 42.5	1.363	1.363	1.362 1.361	1.360
v (cm ⁻¹ )	1769.3	1777.1	1792.5	1800.2	1807.9	1823.3	1831.1	1846.5	1854.2	1861.9	1877.4	1885.1	1892.8	1900.5	1908.2	1923.7	1931.4	1939.1	1946.8	1954.5	1962.2	1977.7	1985.4	1993.1	2000.8	2016.2	2024.0	2031.7	2039.4	2054.8	2062.5	2070.3	20/8.0	2093.4	2101.1	2116.5	2124.3	2132.0	2139.7	2155.1	2162.8	2170.6	2186.0	2193.7	2201.4 2209.1	2216.9
٧.	0.018	0.020	0.021	0.022	0.024	0.025	0.025	0.020	0.028	0.028	0.030	0.031	0.033	0.032	0.033	0.034	0.035	0.035	0.036	0.038	0.040	0.039	0.040	0.041	0.042	0.046	0.044	0.049	0.046	0.048	0.049	0.052	0.033	0.056	0.058	0.060	0.061	0.061	0.062	0.057	0.052	0.047	0.034	0.028	0.023	0.016
r r	1.345	1.346	74.	1.347	1.348	1.348	1.349	1.350	1.350	1.350	1.350	1.351	1.350	1.351	1.351	1.351	1.350	1.351	1.351	1.351	1.350	1.350	1.350	1.349	1.349	1.349	1.348	1.347	1.346	1.345	1.345	45.5	347	1.340	1.338	1.331	1.327	1.324	1.319	1.307	1.303	1.300	1.297	1.298	1.300	1.304
v (cm ⁻¹ )		1321.8	1337.2	1345.0	1352.7	1368.1	1375.8	1391.3	1399.0	1406.7	1414.4	1429.8	1437.6	1445.3	1453.0	1468.4	1476.1	1483.8	1491.6	1499.3	15147	1522.4	1530.1	1537.9	1553.3	1561.0	1568.7	1576.4	1584.2	1599.6	1607.3	1615.0	1630.4	1638.2	1645.9	1661.3	1669.0	1676.7	1692.2	1699.9	1707.6	1715.3	1730.8	1738.5	1746.2 1753.9	1761.6
<u> </u>	0.339	0.319	0.290	0.241	0.214	0.157	0.130	0.080	0.059	0.042	0.030	0.012	0.008	200	36	0.00	0.001	000	900	38		0.000	0.000	000	300	0.00	0.003	0.003	0.00	0.003	0.003	0.003	0.00	0.005	0.00	0.00	0.008	0.00	0.010	0.010	0.011	0.013	0.014	0.016	0.016	0.018
a	1.179	1.157	1.123	1.111	1.102	1.098	1.101	1.117	1.129	1.143	1.13/	1.188	1.199	1.212	1 233	1.241	1.247	1.254	1.261	1.200	1.2.1	1.280	1.284	1.288	1.290	1.297	1.301	1.303	1.305	1.310	1.313	1.315	1.320	1.322	1.324	1.327	1.330	1.331	1.332	1.336	1.337	1.339	1.341	1.342	1343	1.344
v (cm ⁻¹ )		866.6	8/4.5 882.0	889.7	897.5	912.9	920.6	936.0	943.7	951.5	7.606 0.690	974.6	982.3	990.0	87/86 1005 5	1013.2	1020.9	1028.6	1036.3	1044.0	1059.5	1067.2	1074.9	1082.6	1090.3	1105.8	1113.5	1121.2	1126.6	1144.4	1152.1	1159.8	1175.2	1182.9	1190.6	1206.1	1213.8	1221.5	1236.9	1244.7	1252.4	1260.1	1275.5	1283.2	1291.0 1298.7	1306.4
¥	0000	0.000	000	0.007	0.010	0.003	0.000	0.00	0.006	0.013	0.00	0.015	0.018	0.018	0.020	0.026	0.029	0.031	0.034	0.037	0.030	0.054	0.061	0.071	0.080	0.107	0.121	0.135	0.134	0.190	0.210	0.227	0.267	0.288	0.307	0.348	0.358	0.374	0.396	0.402	0.408	0.408	0.403	0.397	0.388	0.359
u	1					1.507											1.549							1.587		8				1.613				1.581		1.533		1.493							1.251	- 1
v (cm ⁻¹ )	500.1	503.9	511.7	515.5	519.4	527.1	530.9	538.7	542.5	546.4	554 1	558.0	561.8	565.7	573.4	577.2	581.1	585.0	288.8	596.5	604.2	612.0	619.7	627.4	642.8	650.5	658.3	666.0	6814	689.1	8.969	704.6	720.0	7.7.7	733.4	750.9	758.6	766.3	781.7	789.4	797.1	804.9	820.3	828.0	835.7 843.4	851.2

	0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	0.018
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F		1.36
v (cm ⁻¹ )	1737.5 1745.2 1745.2 176.1 176.1 177.1 177.1 177.1 177.1 177.1 177.1 177.1 177.1 188.7 188.7 188.7 188.7 188.7 188.7 188.7 189.7 189.7 189.7 189.7 189.7 189.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199.7 199	2185.0
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v (cm ⁻¹ )	1282.3 1282.3 1290.0 1290.0 1305.4 1313.1 1320.9 1338.6 1338.6 1338.6 1338.6 1338.6 1338.6 1338.6 1338.6 1338.6 1347.0 1347.0 1447.1 1447.2 1447.2 1447.2 1447.2 1447.2 1447.2 1447.2 1447.2 1447.2 1552.3 1566.0 1572.3 1583.2 1583.2 1583.2 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 1666.3 16	1729.8
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v (cm ⁻¹ )	827.0 834.8 842.5 842.5 842.5 842.5 842.5 842.5 842.5 843.3 843.1 843.1 996.8 996.8 996.8 996.8 1004.5 1010.2 1010.2 1010.2 1010.2 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010.3 1010	1274.6
<u></u>	0.0677 0.077 0.077 0.089 0.089 0.099 0.099 0.099 0.099 0.0100 0.0100 0.0100 0.0103 0.0133 0.0134 0.0134 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139 0.0139	0.456
=		1.318
v (cm ⁻¹ )	\$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$607.3 \$6	819.3
<u> </u>		0.064
	1440 1440 1440 1440 1440 1440 1440 1440	1.525
v (cm ⁻¹ )	3393.5 399.5 399.5 44.00.0 44.00.0 45.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0 46.00.0	503.5
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	1202 1206 1206 1214 1228 1228 1228 1228 1228 1239 1239 1239 1339 1338 1338 1338 1338 1338 1338 13	1.433
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	0.334 0.337 0.337 0.337 0.337 0.337 0.338 0.338 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538 0.538	0.174
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v (cm ⁻¹ )	502 521 521 521 532 533 645 657 657 657 657 657 657 657 65	162.0

TABLE 5F—Continued

v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2192.7	1.361	0.019	2648.0	1.392	0.002	3103.2	1.672	0.143	3558.4	1.097	0.018
2200.5	1.361	0.020	2655.7	1.393	0.002	3110.9	1.678	0.167	3566.2	1.105	0.015
2208.2	1.360	0.020	2663.4	1.394	0.002	3118.6	1.685	0.191	3573.9	1.112	0.012
2215.9	1.358	0.021	2671.1	1.395	0.002	3126.4	1.697	0.216	3581.6	1.119	0.012
2223.6	1.358	0.021	2678.8	1.397	0.001	3134.1	1.700	0.244	3589.3	1.125	0.008
2231.3	1.357	0.021	2686.6	1.398	0.002	3141.8	1.694	0.274	3597.0	1.131	0.006
2239.0	1.355	0.021	2694.3	1.400	0.001	3149.5	1.690	0.303	3604.7	1.137	0.004
2246.7	1.355	0.020	2702.0	1.402	0.002	3157.2	1.683	0.332	3612.5	1.143	0.003
2254.5	1.355	0.020	2709.7	1.403	0.002	3164.9	1.665	0.361	3620.2	1.148	0.002
2262.2	1.354	0.019	2717.4	1.404	0.002	3172.6	1.652	0.389	3627.9	1.153	0.000
2269.9	1.354	0.019	2725.1	1.406	0.002	3180.4	1.652	0.369	3635.6	1.158	0.000
2277.6	1.353	0.017	2732.8	1.408	0.002	3188.1	1.626	0.441	3643.3	1.163	0.000
2285.3	1.354	0.017	2740.6	1.409	0.002	3195.8	1.608	0.466	3651.0	1.167	0.000
2293.0	1.354	0.015	2748.3	1.411	0.002	3203.5	1.587	0.489	3658.7	1.171	0.000
2300.8	1.355	0.013	2756.0	1.413	0.002	3211.2	1.552	0.511	3666.5	1.175	0.000
2308.5	1.355	0.013	2763.7	1.415	0.002	3218.9	1.526	0.532	3674.2	1.179	0.000
2316.2	1.355	0.013	2771.4	1.416	0.002	3226.7	1.517	0.532	3681.9	1.179	0.000
2310.2	1.356	0.013	2771.4	1.418	0.002	3234.4	1.487	0.565	3689.6	1.185	0.000
2323.9	1.356	0.012	2779.1	1.410	0.002	3234.4	1.442	0.580	3697.3	1.189	0.000
2331.6	1.350	0.012	2794.6	1.420	0.002	3242.1	1.442	0.590	3705.0	1.192	0.000
2347.1	1.357	0.012	2802.3	1.425	0.002	3257.5	1.359 1.322	0.599	3712.8	1.194	0.000
2354.8	1.358	0.011	2810.0	1.427	0.003	3265.2		0.602	3720.5	1.197	0.000
2362.5	1.358	0.011	2817.7	1.429	0.003	3273.0	1.306	0.596	3728.2	1.200	0.000
2370.2	1.359	0.010	2825.4	1.431	0.003	3280.7	1.269	0.589	3735.9	1.203	0.000
2377.9	1.359	0.009	2833.2	1.434	0.003	3288.4	1.221	0.581	3743.6	1.205	0.000
2385.6	1.360	0.009	2840.9	1.437	0.003	3296.1	1.189	0.565	3751.3	1.207	0.000
2393.4	1.361	0.009	2848.6	1.440	0.003	3303.8	1.160	0.546	3759.1	1.209	0.000
2401.1	1.361	0.009	2856.3	1.443	0.003	3311.5	1.122	0.525	3766.8	1.211	0.000
2408.8	1.362	0.008	2864.0	1.446	0.003	3319.3	1.119	0.501	3774.5	1.213	0.000
2416.5	1.363	0.008	2871.7	1.449	0.004	3327.0	1.101	0.478	3782.2	1.215	0.000
2424.2	1.363	0.007	2879.4	1.452	0.004	3334.7	1.076	0.455	3789.9	1.218	0.000
2431.9	1.364	0.007	2887.2	1.456	0.004	3342.4	1.065	0.437	3797.6	1.219	0.000
2439.6	1.365	0.007	2894.9	1.460	0.005	3350.1	1.054	0.416	3805.3	1.221	0.000
2447.4	1.365	0.007	2902.6	1.463	0.005	3357.8	1.037	0.399	3813.1	1.223	0.000
2455.1	1.367	0.007	2910.3	1.467	0.006	3365.5	1.029	0.381	3820.8	1.225	0.000
2462.8	1.367	0.007	2918.0	1.471	0.007	3373.3	1.032	0.363	3828.5	1.226	0.000
2470.5	1.368	0.006	2925.7	1.476	0.008	3381.0	1.025	0.348	3836.2	1.228	0.000
2478.2	1.369	0.006	2933.5	1.480	0.008	3388.7	1.009	0.332	3843.9	1.229	0.000
2485.9	1.369	0.006	2941.2	1.485	0.009	3396.4	1.002	0.315	3851.6	1.231	0.000
2493.7	1.370	0.005	2948.9	1.490	0.011	3404.1	0.987	0.296	3859.4	1.232	0.000
2501.4	1.371	0.005	2956.6	1.495	0.012	3411.8	0.980	0.277	3867.1	1.234	0.000
2509.1	1.372	0.005	2964.3	1.501	0.014	3419.6	0.985	0.257	3874.8	1.235	0.000
2516.8	1.373	0.004	2972.0	1.506	0.015	3427.3	0.981	0.236	3882.5	1.236	0.000
2524.5	1.374	0.004	2979.8	1.513	0.017	3435.0	0.972	0.215	3890.2	1.238	0.000
2532.2	1.375	0.004	2987.5	1.520	0.020	3442.7	0.972	0.193	3897.9	1.239	0.000
2540.0	1.376	0.004	2995.2	1.526	0.022	3450.4	0.973	0.171	3905.7	1.240	0.000
2547.7	1.376	0.004	3002.9	1.533	0.025	3458.1	0.975	0.150	3913.4	1.241	0.000
2555.4	1.378	0.004	3010.6	1.541	0.028	3465.9	0.987	0.131	3921.1	1.242	0.000
2563.1	1.379	0.004	3018.3	1.548	0.031	3473.6	0.995	0.113	3928.8	1.243	0.000
2570.8	1.380	0.004	3026.0	1.557	0.035	3481.3	1.001	0.096	3936.5	1.244	0.000
2578.5	1.381	0.003	3033.8	1.568	0.039	3489.0	1.012	0.082	3944.2	1.245	0.000
2586.2	1.382	0.003	3041.5	1.577	0.045	3496.7	1.022	0.070	3951.9	1.247	0.000
2594.0	1.383	0.003	3049.2	1.588	0.051	3504.4	1.032	0.060	3959.7	1.248	0.000
2601.7	1.384	0.003	3056.9	1.599	0.059	3512.1	1.042	0.050	3967.4	1.249	0.000
2609.4	1.385	0.003	3064.6	1.610	0.068	3519.9	1.055	0.043	3975.1	1.250	0.000
2617.1	1.386	0.002	3072.3	1.622	0.078	3527.6	1.064	0.036	3982.8	1.251	0.000
2624.8	1.388	0.002	3080.1	1.638	0.091	3535.3	1.073	0.031	3990.5	1.253	0.000
2632.5	1.389	0.002	3087.8	1.651	0.105	3543.0	1.082	0.026	3998.2	1.254	0.000
2640.3	1.390	0.002	3095.5	1.661	0.123	3550.7	1.089	0.022	l		
20.0.5	570	2.002	20,0.0	001	31.23		2.007	3.022	·		

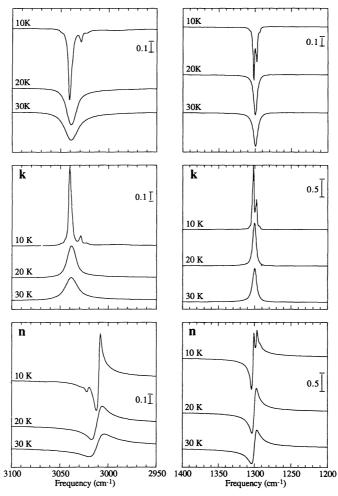


Fig. 6.—The 3100 to 2950 cm⁻¹ and 1400 to 1200 cm⁻¹ transmission spectra and optical constants (n and k) of a pure CH₄ ice at temperatures of 10, 20, and 30 K. The original ice was deposited at 10 K.

<u>                                   </u>	0.000000000000000000000000000000000000
v (cm ⁻¹ )	3071.4 3071.4 3071.4 3071.4 3071.2 3071.4 3071.2 3071.2 3071.2 3071.2 3071.2 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 3081.0 30
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v (cm ⁻¹ )	3014.5 3015.4 3016.4 3015.4 3015.4 3015.4 3019.3 3020.3 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0 3022.0
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v (cm ⁻¹ )	2958.5 2958.5 2966.5 2966.3 2966.3 2966.3 2966.3 2966.3 2966.3 2966.3 2966.3 2966.3 2966.3 2966.3 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 29777.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2977.0 2
×	0.000000000000000000000000000000000000
_ =	1330   1330   1328   1328   1329   1329   1329   1329   1329   1329   1339   1331 
v (cm ⁻¹ )	1824.3 1843.6 1843.6 1873.2 1973.2 1973.2 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 1977.3 19
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		1.295	1.296	1.290	1.297	1.297	1.298	1.298	1.299	1.299	1.299	1.299	1.300	1.300	1.301	1.301	1.301	1.302	1.302	1.302	1.302	1.303	1.303	1.303	1.304	 8 8 8 8	5.5	1.50	1.304	45.5	1.310	1.313	1.313	1318	1318	1.319	1.320	1.321	1.321	1.322	1.322	1.323	1.323	1.323	1.324	1.324	1.324	1.324	1.323	1,325	1.325			
v (cm-1)	( 110) 4	30/0.4	3072.3	3074.3	3075.2	3076.2	3077.2	3078.1	3079.1	3080.1	3081.0	3082.0	3083.0	3083.9	3084.9	3085.8	3086.8	3087.8	3088.7	3089.7	3090.7	3091.6	3092.6	3093.6	3094.5	3095.5	3096.5	4.7606	3008.4	3099.3	3123.9	2177.7	31/2.2	3220.4	3244.5	3268.6	3292.7	3316.8	3340.9	3365.1	2389.2	3415.5	3461.5	3485.6	3509.7	3533.8	3558.0	3582.1	3000.7	3654.4	3678.5			
د ا	4	0.253	0.210	0.172	0.116	0.098	0.086	0.076	0.067	0.000	0.054	0.050	0.046	0.043	0.040	0.038	0.036	0.033	0.032	0.030	0.029	770.0	0.020	0.026	0.023	0.023	0.023	0.022	0.021	0.020	0.019	0.019	0.010	0.010	0.016	0.016	0.015	0.015	0.014	0.014	0.013	10.0	0.013	0.013	0.013	0.012	0.012	0.012	0.0	0.0	0.011	0.010	0.010	0.010
		1.176	1.161	1.158	1.171	1.181	1.190	1.198	1.206	1.213	1.219	1.225	1.230	1.234	1.238	1.242	1.245	1.249	1.231	1.254	1.257	627.1	1971	1.263	C07.1	1.267	1.208	0.77	1.2/1	1.2/3	1.2/4	1.277	1.2.1	1 270	1.279	1.280	1.282	1.282	1.284	1.284	1.285	1 286	1.287	1.288	1.288	1.289	1.290	1.290	1.291	1 292	1.293	1.293	1.294	1.67.
v (cm-1)	) i i i	3014.5	3016.4	3018.3	3019.3	3020.3	3021.2	3022.2	3023.2	3024.1	3025.1	3026.0	3027.0	3028.0	3028.9	3029.9	3030.9	3031.8	3032.8	3033.8	3034.7	3035.7	3036.7	3037.6	3038.6	3039.6	3040.5	5041.5	3042.4	3043.4	3044.4	3045.3	2040.3	2047.5	3049.2	3050.2	3051.1	3052.1	3053.1	3054.0	3055.0	3056.0	3057.9	3058.8	3059.8	3060.8	3061.7	3062.7	3003.7	3065.6	3066.6	3067.5	3068.5	7.5000
د	4	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.00	9 9	3.5	20.0	3.5	0.00	0.00	0.00	90.0	0.007	0.00	0.00	0.00	0.010	0.010	0.01	210.0	0.014	0.010	0.019	0.023	0.026	0.030	0.035	0.041	0.040	0.00	0.083	0.103	0.127	0.159	0.198	0.240	0.280	0.343	0.350	0.342	0.32.0
	=	1.361	1.362	265.1	1.364	1.365	1.366	1.367	1.368	1.369	1.370	1.371	1.372	1.373	1.374	1.375	1.377	1.378	1.3/9	1.381	1.383	1.384	1.386	1.388	1.390	1.392	1.395	1.397	1.400	1.402	1.405	1.408	1.412	1.410	1 424	1.430	1.435	1.441	1.447	1.454	1.462	1.4/1	1.490	1.500	1.510	1.520	1.525	1.522	1.509	4 4 8 4 8 4 8	1.399	1.344	1.292	1.27
v (cm-1)	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	2958.5	2960.5	2961.4 2962.4	2963.4	2964.3	2965.3	2966.3	2967.2	2968.2	2969.1	2970.1	2971.1	2972.0	2973.0	2974.0	2974.9	2975.9	6.0/67	2977.8	29/8.8	8.6/67	7.0867	2981.7	2987.0	2983.6	2984.6	2,082.5	2986.5	2987.5	2988.4	2989.4	2990.4	2007 3	2993 3	2994.2	2995.2	2996.1	2997.1	2998.1	0.6662	3000.0	3001.9	3002.9	3003.9	3004.8	3005.8	3006.8	300/./	3006.7	3010.6	3011.6	3012.5	3013.3
۱ ا	+	0.002	0.001	0.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.00	0.001	0.001	0.001	0.001	0.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	100.0	1000	1000	0.00	0.00	0.00	0.001	0.00	0.001	0.003	96	0.003	0.002	0.000	0.001	0.002	0.002	7007	2000	0.002	0.002	0.002	30.00
٤	11		1.328							1.329	1.330						1.331	1.331		1.331		1.331	1.332	1.332	1.332	1.332	1.332	1.333	1.333	1.333	1.333	1.334	1.334	1.333	1 333	1.334	1.334	1.335	1.336				1.338				1.352	1.356	1.35/	1 358	1.358	1.359	1.360	DOC.1
v (cm-1)	( 1112) 4	1824.8	1874.9	1899.1	1947.3	1971.4	1995.5	2019.6	2043.7	2067.8	2092.0	2116.1	2140.2	2164.3	2188.4	2212.5	2236.6	2260.7	2784.8	2309.0	2333.1	2357.2	2381.3	2405.4	2429.5	2453.6	24/1.7	2501.9	2526.0	2550.1	25/4.2	2598.3	2646 5	2640.3	2,689.5	2707.8	2727.1	2746.4	2765.6	2784.9	2804.2	2673.3	2862.1	2881.4	2900.7	2920.0	2939.2	2950.8	2951.8	2932.7	2954.7	2955.6	2956.6	0.1067
د	4 8	0.08	0.00	800	0.00	9000	9000	0.00	0.008	0.00	0.00	90.0	90.0	90.0	0.00	0.00	3.5	900	3.6	900	3.5	9.0	0.00	900	90.0	0.00	9.0	9.0	9.0	0.00	9.0	3 8	3 5	9 5	3 5	0000	9000	0.00	0.00	0.0	90.0	3 5	9 6	000	0.0	0.003	0.003	0.003	0.00	0.00	0.002	0.002	0.002	0.002
	1 000	1.283	1.283	1.285	1.287	1.286	1.288	1.289	1.289	1.289	1.290	1.291	1.291	1.292	1.292	1.293	1.293	1.294	1.294	1.295	262.	262.1	1.296	1.296	1.296	1.297	1.297	1.298	1.298	1.298	1.298	1.298	1.299	1 200	1 300	1.300	1.307	1.310	1.312	1.315	1.318	1.319	1.320	1.322	1.322	1.323	1.324	1.324	1.323	1.325	1.327	1.327	1.328	1.328
v (cm-1)	( 0,0)	1364.7	1365.7	1367.6	1368.6	1369.6	1370.5	1371.5	1372.5	1373.4	1374.4	1375.3	1376.3	1377.3	1378.2	1379.2	1380.2	1381.1	1382.1	1383.1	1384.0	1385.0	1386.0	1386.9	1387.9	1388.8	1389.8	1390.8	1391.7	1392.7	1393.7	1394.6	1395.6	1307.5	1398 5	1399.5	1419.2	1438.5	1457.8	1477.1	1496.4	1515.7	15543	1573.5	1592.8	1612.1	1631.9	1651.2	16/0.5	1700 1	1728.3	1747.6	1766.9	1/86.2
د ا	4	0.130	0.104	0.083	0.062	0.054	0.049	0.04	0.039	0.036	0.031	0.032	0.029	0.027	0.025	0.022	0.020	0.020	0.020	0.018	0.018	0.018	0.016	0.016	0.016	0.016	0.014	0.014	0.014	0.014	0.014	0.012	210.0	0.012	0.012	0000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.008	0.010	0.008	0.008	0.00	0.008	0.008	0.008	0.008
		0.909					1.111	1.124	1.137	1.149	1.159	1.168	1.175	1.182	1.189	961.1	1.201	1.20/	1.211	1.216	1.221	1.224	177.1	1.231	1.233	1.236	1.239	1.242	1.245	1.247	1.248	0007.1	5501	1.233	1 258	1.258	1.261	1.263	1.265	1.266	1.267	1.209	1270	1.271	1.271	1.274	1.275	1.275	0/7:1	1 270	1.279	1.280	1.281	1.282
v (cm-1)	) (CIII) A	1306.9	1308.8	1310.7	1311.7	1312.7	1313.6	1314.6	1315.5	1316.5	1317.5	1318.4	1319.4	1320.4	1321.3	1322.3	1323.3	1324.2	1323.2	1326.2	1327.1	1328.1	1329.1	1330.0	1331.0	1331.9	1332.9	1333.9	1334.8	1335.8	1336.8	133/./	1336.7	1339.7	13416	1342.6	1343.5	1344.5	1345.4	1346.4	1347.4	1348.3	13503	1351.2	1352.2	1353.2	1354.1	1355.1	1356.1	1358.0	1358.9	1359.9	1360.9	1362.8
۱ -	4	0.00	0.003	0.00	0.003	0.003	0.003	0.003	0.003	0000	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	CON.0	0.003	0.003	0.003	0.003	0.003	0.00	0.005	0.00	0.00	0.00	0.007	0.00	38	36	0.010	0.012	0.015	0.018	0.022	0.028	0.035	0000	0.00	0.07	0.146	0.203	0.306	0.481	0.746	620.1	1.179	0.950	0.693	0.466	0.226
	- 0	1.390	1.392	1.395	1.396	1.397	1.399	1.400	1.401	1.403	1.405	1.407	1.409	1.411	1.413	1.415	1.418	1.420	1.423	1.426	1.429	1.432	1.430	4:	1.444	2.48	1.452	1.438	404.	1.470	1.4/6	1.484	1.492	1.501	1521	1.534	1.549	1.566	1.586	1.608	1.634	4 6	1.743	1.791	1.855	1.926	1.980	1.955	1./81	1.4/4	0.886	0.760	0.749	0.855
v (cm-1)	1020	1250.0	1251.9	1253.8	1254.8	1255.8	1256.7	1257.7	1258.6	1259.6	1260.6	1261.5	1262.5	1263.5	1264.4	1265.4	1200.4	126/.3	1208.3	1269.3	12/0.2	12/1.2	12/2.1	1273.1	12/4.1	1275.0	12/6.0	1277.0	1277.9	1278.9	12/9.9	1280.8	1201.0	1,262.0	1283.7	1285.6	1286.6	1287.6	1288.5	1289.5	1290.5	47671	1292.4	1294.3	1295.3	1296.3	1297.2	1298.2	7.6671	1300.1	1302.0	1303.0	1304.0	1305.9
-	4 8	0.00	0.003	0.00	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	500.0	0.003	0.00	0.00	0.003	0.000	0.000	0.003	900	0.00	0000	0.000	0.003	90.0	3 6	38	300	0000	0.003	0.003	0.003	0.003	0.003	0.000	000	0.003	0.000	0.003	0.003	0.003	30.0	0.00	0.003	0.003	0.000	0.000
1		1.347	1.350	1.347	1.350	1.354	1.359	1.360	1.360	1.361	1.361	1.361	1.361	1.362	1.362	1.362	1.303	1.363	1.303	1.363	1.303	400.5	1.365	5. 4. 5.	1.30/	1.366	1.365	1.30/	1.308	1.370	1.309	1.370	1.370	1.370	1.372	1.372	1.374	1.374	1.374	1.373	1.375	1.3/5	1.378	1.379	1.379	1.381	1.380	1.381	1.383	1.383	1.384	1.384	1.387	1.387
v (cm-1)	1000	1047.4	1071.5	1124.1	1148.2	1172.3	1196.4	1200.8	1201.7	1202.7	1203.7	1204.6	1205.6	1206.6	1207.5	1208.5	1209.5	1210.4	1211.4	1212.3	1213.3	1214.3	1215.2	1216.2	121/12	1218.1	1219.1	1220.1	1221.0	1222.0	1223.0	1223.9	1224.9	1223.9	1220.8	1228.7	1229.7	1230.7	1231.6	1232.6	1233.6	1234.5	1235.3	1237.4	1238.4	1239.4	1240.3	1241.3	1242.2	1245.2	1245.1	1246.1	1247.1	1249.0

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       v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         n         n         n         n         n         n <th>v (cm⁻¹)</th> <th>2958.5 2960.5 2960.5 2960.5 2960.6 2960.6 2960.6 2960.1 2960.1 2960.1 2960.1 2960.1 2960.1 2960.1 2973.0 2973.0 2974.0 2974.0 2974.0 2974.0 2974.0 2974.0 2974.0 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 2976.1 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n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²¹)         n         k         √(cm²²)          n         k         √(cm²²)         n         k         √(cm²²)         n         k         √(cm²²)         n         k         √(cm²²)         n         k         √(cm²²)         n         k         √(cm²²)         n         k         √(cm²²)         n         k         √(cm²²)         n <th>k</th> <th>0.0000000000000000000000000000000000000</th>	k	0.0000000000000000000000000000000000000
n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v	c	1328 1328 1328 1328 1328 1329 1329 1339 1331 1331 1331 1331 1333 1333
n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         x         x         x	v (cm ⁻¹ )	1824.3 1843.6 1843.6 1899.1 1923.2 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 1947.3 19
n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )           1.345         0.000         12500         1394         0.000         12500         1394         0.000         12500         1394         0.000         12500         1394         0.000         12519         1398         0.000         1309         0.000         13519         1398         0.000         1309         0.000         13519         1300         0.000         13519         1300         0.000         1354         1400         0.000         1300         0.000         1354         1400         0.000         1300         0.000         1300         0.000         1300         0.000         1300         0.000         1300         0.000         1300         1300         0.000         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300	<b>K</b>	0.000000000000000000000000000000000000
n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         k         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v<	   	1284 1284 1284 1284 1286 1286 1287 1288 1288 1288 1288 1288 1288 1288
n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n           1.345         0.000         12500         1394         0.000         13078         0.992           1.346         0.000         1252.9         1394         0.000         13078         0.992           1.350         0.000         1252.9         1396         0.000         13078         1.066           1.350         0.000         1252.9         1396         0.000         13078         1.066           1.350         0.000         1252.8         1.390         0.000         13078         1.066           1.352         0.000         1255.8         1.405         0.000         13117         1.106           1.362         0.000         1256.7         1.404         0.003         13117         1.106           1.362         0.000         1256.6         1.406         0.003         13117         1.116           1.364         0.000         1256.6         1.406         0.003         13147         1.116           1.365         0.000         1255.7         1.449         0.003         13147         1.116           1.365         0.000         12	v (cm ⁻¹ )	1363.8 1365.7 1365.7 1366.6 1366.6 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 1377.3 13
n         k         v (cm-1)         n         k         v (cm-1)           1.345         0.000         1250.9         1394         0.000         1306.9           1.346         0.000         1250.9         1394         0.000         1308.8           1.346         0.000         1251.9         1396         0.000         1306.8           1.350         0.000         1251.9         1399         0.000         1308.8           1.351         0.000         1252.9         1399         0.003         1307.8           1.352         0.000         1252.8         1402         0.000         1308.8           1.352         0.000         1254.8         1402         0.000         1308.8           1.361         0.000         1254.8         1402         0.000         1311.7           1.362         0.000         1255.7         1405         0.003         1311.2           1.362         0.000         1255.6         1410         0.003         1311.5           1.363         0.000         1255.6         1410         0.003         1311.5           1.364         0.000         1255.6         1410         0.003         1311.6	<u>k</u>	0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008
n         k         v(cm-1)         n         k         v           1.345         0.000         1250.9         1394         0.000           1.346         0.000         1250.9         1394         0.003           1.346         0.000         1250.9         1394         0.003           1.346         0.000         1252.9         1398         0.003           1.350         0.000         1252.9         1398         0.003           1.355         0.000         1252.8         1.403         0.003           1.365         0.000         125.8         1.404         0.003           1.365         0.000         1256.7         1.404         0.003           1.365         0.000         1256.7         1.404         0.003           1.365         0.000         1256.7         1.404         0.003           1.366         0.000         1256.7         1.404         0.003           1.366         0.000         1256.7         1.404         0.003           1.366         0.000         1256.7         1.404         0.003           1.366         0.000         1256.4         1.420         0.003	11	l ·
n         k         v(cm-1)         n           1.345         0.000         1250.0         1394           1.346         0.000         1250.9         1398           1.346         0.000         1251.9         1398           1.350         0.000         1252.9         1398           1.350         0.000         1252.9         1398           1.351         0.000         1252.8         1403           1.365         0.000         1252.8         1403           1.365         0.000         1256.7         1404           1.365         0.000         1256.7         1404           1.365         0.000         1261.8         1406           1.365         0.000         1262.5         1418           1.365         0.000         1262.5         1418           1.366         0.000         1262.5         1416           1.366         0.000         1262.5         1416           1.366         0.000         1262.5         1416           1.367         0.000         1262.5         1416           1.370         0.000         1270.1         1426           1.370         0.000	v (cm ⁻¹ )	1306.9 1308.8 1309.8 1309.8 1310.7 1311.7 1311.7 1311.5 1311.6 1311.9 1325.2 1311.9 1325.2 1326.3 1337.0 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 1338.3 13
New York   Color   C	×	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
1345   0.000   1.346   0.000   1.346   0.000   1.346   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.345   0.000   1.347   0.000   1.347   0.000   1.347   0.000   1.347   0.000   1.347   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   1.348   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000	_ c	1.394 1.398 1.398 1.398 1.398 1.398 1.398 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408 1.408
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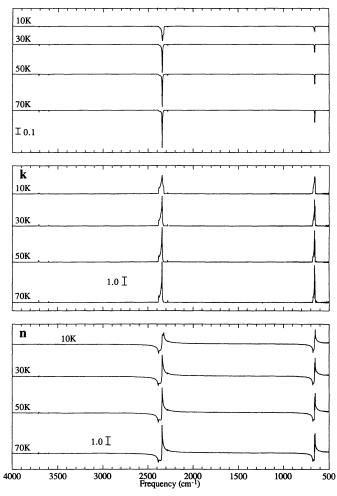


Fig. 7.—The 4000 to 500 cm $^{-1}$  transmission spectra and optical constants (n and k) of a pure CO₂ ice at temperatures of 10, 30, 50, and 70 K. The original ice was deposited at 10 K.

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TABLE 7A—Continued

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ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	k
2527.4	1.083	0.011	2883.3	1.164	0.000	3566.6	1.192	0.008	3678.5	1.202	0.008
2529.3	1.085	0.011	2896.8	1.168	0.000	3568.6 3570.5	1.192 1.191	0.008	3680.4 3682.4	1.201 1.202	0.008
2531.3 2533.2	1.086 1.087	0.011	2910.3 2923.8	1.174 1.171	0.010 0.010	3570.5	1.191	0.008 0.008	3684.3	1.202	0.008 0.008
2535.2	1.088	0.011	2923.8	1.171	0.010	3574.4	1.190	0.008	3686.2	1.202	0.008
2537.1	1.090	0.011	2950.8	1.171	0.000	3576.3	1.189	0.000	3688.2	1.203	0.008
2539.0	1.091	0.011	2964.3	1.173	0.000	3578.2	1.194	0.008	3690.1	1.203	0.008
2540.9	1.092	0.011	2977.8	1.172	0.000	3580.1	1.191	0.000	3692.0	1.210	0.008
2542.8	1.093	0.011	2991.3	1.180	0.000	3582.1	1.198	0.000	3693.9	1.210	0.008
2544.8	1.095	0.011	3004.8	1.178	0.000	3584.0	1.196	0.008	3695.9	1.213	0.008
2546.7	1.096	0.011	3018.3	1.178	0.000	3585.9	1.199	0.008	3697.8	1.218	0.008
2548.6	1.097	0.011	3031.8	1.182	0.009	3587.9	1.198	0.000	3699.7	1.227	0.015
2550.6	1.098	0.011	3045.3	1.183	0.009	3589.8	1.205	0.008	3701.7	1.228	0.030
2552.5	1.099	0.011	3058.8	1.183	0.009	3591.7	1.205	0.008	3703.6	1.221	0.038
2554.4	1.100	0.011	3072.3	1.183	0.000	3593.6	1.209	0.016	3705.5	1.216	0.038
2556.3	1.101	0.011	3085.8	1.181	0.009	3595.6	1.207	0.024	3707.5	1.224	0.053
2558.3	1.102	0.011	3099.3	1.182	0.009	3597.5	1.204	0.024	3709.4	1.168	0.093
2560.2	1.102	0.011	3112.9	1.180	0.009	3599.4	1.206	0.039	3711.3	1.153	0.039
2562.1	1.101 1.109	0.011	3126.4 3139.9	1.185 1.185	0.000 0.009	3601.4 3603.3	1.172 1.175	0.032 0.016	3713.2 3715.2	1.164 1.174	0.015
2564.1 2566.0	1.109	0.011	3153.4	1.185	0.009	3605.2	1.178	0.016	3715.2	1.174	0.015 0.015
2567.9	1.108	0.011	3166.9	1.180	0.009	3607.1	1.178	0.008	3717.1	1.177	0.013
2569.9	1.109	0.011	3180.4	1.186	0.000	3609.1	1.186	0.008	3719.0	1.176	0.007
2571.8	1.110	0.011	3193.9	1.178	0.009	3611.0	1.187	0.008	3722.9	1.182	0.007
2573.7	1.110	0.011	3206.9	1.171	0.000	3612.9	1.188	0.008	3724.8	1.181	0.007
2575.6	1.111	0.011	3220.4	1.170	0.009	3614.9	1.189	0.008	3726.7	1.185	0.007
2577.6	1.112	0.011	3233.9	1.172	0.009	3616.8	1.190	0.008	3728.7	1.186	0.007
2579.5	1.113	0.011	3247.4	1.169	0.000	3618.7	1.190	0.008	3730.6	1.188	0.007
2581.4	1.113	0.011	3260.9	1.169	0.009	3620.6	1.191	0.008	3732.5	1.188	0.008
2583.4	1.114	0.011	3274.4	1.170	0.009	3622.6	1.191	0.008	3734.5	1.189	0.008
2585.3	1.114	0.011	3287.9	1.174	0.009	3624.5	1.191	0.008	3736.4	1.190	0.008
2587.2	1.114	0.011	3301.4	1.171	0.000	3626.4	1.192	0.008	3738.3	1.190	0.008
2589.1	1.117	0.000	3314.9	1.172	0.009	3628.4	1.192	0.008	3740.2	1.191	0.007
2591.1	1.119	0.011	3328.4	1.176	0.000	3630.3	1.192	0.008	3742.2	1.191	0.007
2593.0	1.119	0.011	3341.9	1.174	0.008	3632.2 3634.2	1.193 1.193	0.008	3744.1 3746.0	1.191	0.007
2594.9 2596.9	1.118 1.121	0.011	3355.4 3368.9	1.173 1.174	0.000	3636.1	1.193	0.008	3748.0	1.192 1.192	0.007 0.007
2598.8	1.123	0.000	3382.4	1.177	0.008	3638.0	1.193	0.008	3749.9	1.192	0.007
2613.3	1.125	0.011	3395.9	1.177	0.008	3639.9	1.194	0.008	3763.4	1.194	0.007
2626.8	1.130	0.000	3409.4	1.178	0.000	3641.9	1.194	0.008	3776.9	1.195	0.007
2640.3	1.134	0.000	3422.9	1.179	0.000	3643.8	1.194	0.008	3790.4	1.200	0.000
2653.8	1.137	0.011	3436.4	1.181	0.008	3645.7	1.194	0.008	3803.9	1.202	0.007
2667.3	1.144	0.011	3449.9	1.182	0.008	3647.7	1.194	0.008	3817.4	1.203	0.000
2680.8	1.142	0.011	3463.4	1.180	0.008	3649.6	1.195	0.008	3830.9	1.201	0.007
2694.3	1.148	0.011	3476.9	1.184	0.008	3651.5	1.195	0.008	3844.4	1.206	0.007
2707.8	1.149	0.010	3490.4	1.183	0.008	3653.4	1.195	0.008	3857.9	1.204	0.000
2721.3	1.151	0.010	3503.9	1.182	0.008	3655.4	1.195	0.008	3871.4	1.207	0.007
2734.8	1.151	0.000	3517.4	1.189	0.008	3657.3	1.193	0.008	3884.9	1.205	0.000
2748.3	1.154	0.000	3531.0	1.190	0.008	3659.2	1.198	0.008	3898.4	1.207	0.000
2761.8	1.159	0.010	3544.5	1.189	0.008	3661.2	1.197	0.008	3911.9	1.209	0.007
2775.3	1.163	0.000	3551.2	1.189	0.000	3663.1	1.197	0.008	3925.4	1.209	0.007
2788.8	1.160	0.010	3553.1	1.190	0.008	3665.0	1.197	0.008	3938.9	1.209	0.000
2802.3 2815.8	1.165	0.010	3555.1 3557.0	1.190 1.189	0.000	3666.9 3668.9	1.197 1.197	0.008	3952.4 3965.9	1.212 1.211	0.000 0.007
2829.3	1.162	0.010	3558.9	1.193	0.008	3670.8	1.197	0.008	3979.4	1.209	0.007
2842.8	1.168	0.000	3560.9	1.193	0.008	3672.7	1.201	0.008	3979.4	1.210	0.007
2856.3	1.168	0.010	3562.8	1.192	0.000	3674.7	1.199	0.008	3372.3	1.210	0.000
2869.8	1.166	0.010	3564.7	1.193	0.008	3676.6	1.200	0.000			
2007.0	1.100	0.010	3307.7	1.173	0.000	3070.0	1.200	0.000	L		

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v (cm ⁻¹ )	2413.5 2415.5 2417.5 2417.5 2417.5 2417.5 2423.2 2423.0 243.0 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2442.5 2443.9 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 2450.0 245
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v (cm ⁻¹ )	2186.0 2187.9 2187.9 2187.9 2193.7 2193.7 2193.7 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3
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v (cm ⁻¹ )	501.0 501.0 502.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 603.0 603.0 603.0 603.0 603.0 603.0 603.0

TABLE 7B—Continued

				IADI	_E /B_	-Continue	4				
ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2527.4	1.087	0.011	2883.3	1.173	0.000	3566.6	1.191	0.008	3678.5	1.200	0.008
2529.3	1.084	0.011	2896.8 2910.3	1.172 1.175	0.010	3568.6	1.193	0.008	3680.4 3682.4	1.199 1.199	0.008
2531.3 2533.2	1.083 1.082	0.011 0.011	2910.3	1.173	0.010 0.000	3570.5 3572.4	1.195 1.198	0.008 0.008	3684.3	1.199	0.000
2535.1	1.082	0.000	2937.3	1.178	0.010	3574.4	1.195	0.008	3686.2	1.203	0.008
2537.1	1.084	0.000	2950.8	1.184	0.010	3576.3	1.193	0.008	3688.2	1.205	0.000
2539.0	1.096	0.000	2964.3	1.173	0.000	3578.2	1.197	0.008	3690.1	1.210	0.008
2540.9	1.094	0.011	2977.8	1.178	0.000	3580.1	1.196	0.000	3692.0	1.206	0.008
2542.8	1.092	0.011	2991.3	1.181	0.009	3582.1	1.196	0.008	3693.9	1.212	0.000
2544.8	1.092	0.000	3004.8	1.181	0.009	3584.0	1.196	0.000	3695.9	1.213	0.008
2546.7	1.096	0.000	3018.3	1.181	0.009	3585.9	1.202	0.008	3697.8	1.216	0.000
2548.6	1.099	0.000	3031.8	1.183	0.009	3587.9	1.200	0.008	3699.7	1.221	0.008
2550.6	1.097	0.011	3045.3	1.183	0.009	3589.8	1.201	0.008	3701.7	1.227	0.008
2552.5	1.101	0.011	3058.8	1.182	0.009	3591.7	1.202	0.008	3703.6	1.238	0.016
2554.4	1.107	0.011	3072.3	1.188	0.009	3593.6	1.204	0.008	3705.5	1.257	0.023
2556.3	1.104	0.011	3085.8	1.184	0.009	3595.6	1.209	0.008	3707.5	1.284	0.090
2558.3	1.103	0.011	3099.3	1.184	0.009	3597.5	1.220	0.008	3709.4	1.137	0.147
2560.2	1.103	0.011	3112.9	1.182	0.009	3599.4	1.236	0.055	3711.3	1.133	0.032
2562.1	1.105	0.000	3126.4	1.185	0.000	3601.4	1.156	0.049	3713.2	1.156	0.016
2564.1	1.106	0.011	3139.9	1.184	0.009	3603.3	1.168	0.016	3715.2	1.168	0.016
2566.0	1.108	0.000	3153.4	1.181	0.000	3605.2	1.174	0.008	3717.1	1.171	0.016
2567.9	1.110	0.011	3166.9	1.186	0.009	3607.1	1.181	0.008	3719.0	1.179	0.008
2569.9	1.110	0.011	3180.4	1.188	0.009	3609.1 3611.0	1.184	0.008	3721.0 3722.9	1.177	0.016
2571.8	1.110	0.011	3193.9	1.181			1.186	0.008		1.180	0.008
2573.7	1.110	0.011	3206.9 3220.4	1.173 1.167	0.009	3612.9 3614.9	1.187 1.188	0.008	3724.8 3726.7	1.183 1.185	0.008
2575.6 2577.6	1.111 1.111	0.011	3233.9	1.164	0.009	3616.8	1.189	0.008 0.008	3728.7	1.186	0.008
2579.5	1.111	0.011	3247.4	1.173	0.000	3618.7	1.190	0.008	3730.6	1.187	0.008
2581.4	1.110	0.011	3260.9	1.168	0.000	3620.6	1.190	0.008	3732.5	1.187	0.008
2583.4	1.112	0.000	3274.4	1.170	0.000	3622.6	1.190	0.008	3734.5	1.187	0.008
2585.3	1.116	0.000	3287.9	1.169	0.009	3624.5	1.191	0.008	3736.4	1.189	0.000
2587.2	1.117	0.011	3301.4	1.169	0.009	3626.4	1.191	0.008	3738.3	1.191	0.008
2589.1	1.115	0.011	3314.9	1.170	0.009	3628.4	1.191	0.008	3740.2	1.190	0.008
2591.1	1.116	0.000	3328.4	1.172	0.000	3630.3	1.191	0.008	3742.2	1.190	0.008
2593.0	1.115	0.011	3341.9	1.173	0.009	3632.2	1.192	0.008	3744.1	1.189	0.008
2594.9	1.118	0.011	3355.4	1.171	0.000	3634.2	1.192	0.008	3746.0	1.194	0.008
2596.9	1.125	0.000	3368.9	1.174	0.009	3636.1	1.191	0.008	3748.0	1.192	0.008
2598.8	1.123	0.011	3382.4	1.176	0.000	3638.0	1.190	0.008	3749.9	1.190	0.008
2613.3	1.128	0.011	3395.9	1.174	0.009	3639.9	1.195	0.008	3763.4	1.191	0.008
2626.8	1.128	0.000	3409.4	1.171	0.008	3641.9	1.193	0.008	3776.9	1.196	0.000
2640.3	1.138	0.011	3422.9	1.181	0.008	3643.8	1.192	0.008	3790.4	1.199	0.000
2653.8	1.134	0.011	3436.4	1.181	0.008	3645.7	1.191	0.008	3803.9	1.204	0.008
2667.3	1.142	0.011	3449.9	1.175	0.000	3647.7	1.192	0.000	3817.4	1.201	0.000
2680.8	1.148	0.011	3463.4	1.183	0.000	3649.6	1.192	0.000	3830.9	1.204	0.008
2694.3	1.153	0.011	3476.9	1.186	0.008	3651.5	1.199	0.000	3844.4	1.204	0.000
2707.8	1.152	0.000	3490.4	1.190	0.008	3653.4	1.197	0.008	3857.9	1.204	0.000
2721.3	1.153	0.010	3503.9	1.186	0.008	3655.4	1.195	0.008	3871.4	1.206	0.000
2734.8	1.157	0.000	3517.4	1.190	0.008	3657.3	1.194	0.000	3884.9	1.205	0.007
2748.3	1.159	0.000 0.010	3531.0 3544.5	1.192 1.194	0.000	3659.2 3661.2	1.201 1.198	0.008 0.008	3898.4 3911.9	1.204 1.212	0.000
2761.8 2775.3	1.159 1.163	0.000	3544.5 3551.2	1.194	0.008	3663.1	1.198	0.008	3911.9	1.212	0.000
2788.8	1.163	0.000	3553.1	1.192	0.000	3665.0	1.198	0.008	3923.4	1.211	0.000
2802.3	1.170	0.010	3555.1	1.192	0.008	3666.9	1.197	0.008	3952.4	1.213	0.007
2815.8	1.165	0.010	3557.0	1.192	0.008	3668.9	1.197	0.008	3965.9	1.210	0.007
2829.3	1.166	0.000	3558.9	1.190	0.000	3670.8	1.195	0.008	3979.4	1.210	0.000
2842.8	1.171	0.010	3560.9	1.190	0.000	3672.7	1.200	0.008	3992.9	1.212	0.000
2856.3	1.169	0.000	3562.8	1.196	0.000	3674.7	1.198	0.008	3,,2.,	1.212	0.000
2869.8	1.174	0.010	3564.7	1.194	0.008	3676.6	1.199	0.000			
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v (cm-1)	2413.5 2417.5 2417.5 2419.4 2419.4 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 2423.1 24	2525.5
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v (cm-1)	239.8 2303.7 2303.7 2303.7 2303.7 2303.7 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.4 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 2311.6 231	7,711.7
د	00000000000000000000000000000000000000	0.00
=	1357 1365 1366 1367 1367 1368 1368 1368 1375 1375 1375 1375 1376 1376 1377 1378 1378 1378 1378 1378 1378 1378	1.624
v (cm-1)	2186.5 2187.9 2187.9 2187.9 2187.9 2193.6 2193.6 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3 2203.3	6.1622
د.	\$\begin{align*} COOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	0.013
-	1274 1274 1274 1276 1276 1276 1276 1276 1276 1276 1276	1.530
v (cm-1)	1996.3 1996.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 1998.3 19	7184.1
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=	1233 1233 1233 1233 1233 1233 1233 1233	1.271
v (cm-1)		1892.8
<u> </u>	0.000000000000000000000000000000000000	0.020
=	1.084 1.087 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097 1.097	1.220
v (cm ⁻¹ )	728.7 732.5 732.5 732.5 732.5 732.5 732.5 732.5 733.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.8 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7	10%0.1
<b>×</b>	0.0037 0.0037 0.0037 0.0038 0.0038 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039	0.045
l c	1.542 1.557 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605 1.605	ccu.I
v (cm ⁻¹ )	618.7 618.7 618.7 618.7 618.7 622.5 632.2 633.1 643.8 653.1 661.2 661.2 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3 663.3	1.021
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   	8688788878887888787887887887887887887887	
v (cm ⁻¹ )	501.1 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 50	6770

TABLE 7C—Continued

				TAD.	LE /C-	–Continue					
v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2527.4	1.081	0.011	2883.3	1.169	0.010	3566.6	1.193	0.000	3678.5	1.202	0.008
2529.3	1.082	0.011	2896.8	1.168	0.010	3568.6	1.191	0.008	3680.4	1.201	0.008
2531.3	1.084	0.011	2910.3	1.167	0.010	3570.5	1.194	0.008	3682.4	1.202	0.000
2533.2	1.085	0.011	2923.8	1.176	0.000	3572.4	1.193	0.000	3684.3	1.203	0.008
2535.1	1.086	0.011	2937.3	1.174	0.010	3574.4	1.195	0.000	3686.2	1.202	0.008
2537.1	1.084	0.011	2950.8	1.170	0.000	3576.3	1.195	0.008	3688.2	1.201	0.000
2539.0	1.094	0.011	2964.3	1.170	0.000	3578.2	1.193	0.008	3690.1	1.207	0.008
2540.9	1.092	0.011	2977.8	1.175	0.000	3580.1	1.192	0.000	3692.0	1.206	0.000
2542.8	1.093	0.011	2991.3	1.179	0.009	3582.1	1.197	0.008	3693.9 3695.9	1.213	0.008
2544.8	1.094	0.011	3004.8	1.179	0.000	3584.0	1.194	0.008		1.210	0.008
2546.7	1.095 1.096	0.011	3018.3 3031.8	1.180 1.186	0.009 0.009	3585.9 3587.9	1.192 1.197	0.000	3697.8 3699.7	1.217 1.220	0.008 0.008
2548.6 2550.6	1.090	0.011	3045.3	1.180	0.009	3589.8	1.197	0.000	3701.7	1.226	0.008
2552.5	1.097	0.011	3058.8	1.180	0.009	3591.7	1.205	0.008	3703.6	1.237	0.016
2554.4	1.100	0.011	3072.3	1.184	0.000	3593.6	1.203	0.000	3705.5	1.255	0.016
2556.3	1.100	0.011	3085.8	1.178	0.000	3595.6	1.214	0.008	3707.5	1.295	0.082
2558.3	1.101	0.011	3099.3	1.182	0.009	3597.5	1.222	0.008	3709.4	1.129	0.156
2560.2	1.102	0.011	3112.9	1.177	0.009	3599.4	1.242	0.047	3711.3	1.133	0.032
2562.1	1.103	0.011	3126.4	1.187	0.000	3601.4	1.150	0.049	3713.2	1.155	0.016
2564.1	1.105	0.011	3139.9	1.181	0.009	3603.3	1.167	0.016	3715.2	1.167	0.016
2566.0	1.106	0.011	3153.4	1.184	0.000	3605.2	1.178	0.008	3717.1	1.169	0.016
2567.9	1.107	0.011	3166.9	1.182	0.009	3607.1	1.182	0.008	3719.0	1.175	0.008
2569.9	1.108	0.011	3180.4	1.188	0.009	3609.1	1.183	0.008	3721.0	1.180	0.008
2571.8	1.109	0.011	3193.9	1.186	0.009	3611.0	1.190	0.008	3722.9	1.182	0.008
2573.7	1.109	0.011	3206.9	1.171	0.000	3612.9	1.189	0.008	3724.8	1.184	0.008
2575.6	1.110	0.011	3220.4	1.169	0.009	3614.9	1.189	0.008	3726.7	1.186	0.008
2577.6	1.111	0.011	3233.9	1.168	0.009	3616.8	1.190	0.008	3728.7	1.187	0.008
2579.5	1.112	0.011	3247.4	1.167	0.009	3618.7	1.190	0.008	3730.6	1.188	0.008
2581.4	1.113	0.011	3260.9	1.174	0.000	3620.6	1.190	0.008	3732.5	1.188	0.008
2583.4	1.114	0.011	3274.4	1.172	0.009	3622.6	1.191	0.008	3734.5	1.189	0.008
2585.3	1.115	0.011	3287.9	1.174	0.009	3624.5	1.191	800.0	3736.4	1.190	0.008
2587.2	1.115	0.011	3301.4	1.172	0.009	3626.4	1.190	0.008	3738.3	1.190	0.008
2589.1	1.116	0.011	3314.9	1.174	0.000	3628.4	1.191	0.000	3740.2	1.190	0.008
2591.1	1.117	0.011	3328.4	1.178	0.009	3630.3	1.191	0.008	3742.2	1.190	0.008
2593.0	1.117	0.011	3341.9	1.172	0.009	3632.2	1.196	0.008	3744.1	1.189	0.008
2594.9	1.118	0.011	3355.4	1.181	0.000	3634.2	1.194	0.008	3746.0	1.194	0.008
2596.9	1.118	0.011	3368.9	1.180	0.009	3636.1	1.194	0.008	3748.0	1.192	0.008
2598.8	1.117	0.011	3382.4	1.179	0.009	3638.0	1.194	0.008	3749.9	1.192	0.000
2613.3	1.126	0.011	3395.9	1.179	0.009	3639.9	1.193	0.008	3763.4	1.192	0.008
2626.8	1.130	0.000	3409.4	1.179	0.009	3641.9	1.193	0.008	3776.9	1.197	0.008
2640.3	1.134	0.011	3422.9	1.180	0.008	3643.8	1.193	0.008	3790.4	1.199	0.008
2653.8	1.136	0.011	3436.4	1.180	0.008	3645.7	1.192	0.008	3803.9	1.204	0.008
2667.3	1.141	0.011	3449.9	1.180	0.008	3647.7	1.191	0.000	3817.4	1.202	0.000
2680.8	1.142	0.011	3463.4	1.181	0.008	3649.6	1.199	0.000	3830.9	1.201	0.008
2694.3	1.146	0.011	3476.9	1.180	0.008	3651.5	1.198	0.008	3844.4	1.205	0.008
2707.8	1.149	0.010	3490.4	1.185	0.008	3653.4	1.197	0.008	3857.9	1.206	0.000
2721.3	1.153	0.010	3503.9	1.180	0.008	3655.4	1.197	0.008	3871.4	1.209	0.000
2734.8	1.152	0.010	3517.4	1.184	0.008	3657.3	1.197	0.008	3884.9	1.205	0.000
2748.3	1.158	0.000	3531.0	1.189	0.000	3659.2	1.197	0.008	3898.4	1.206	0.007
2761.8	1.158	0.010	3544.5	1.189	0.008	3661.2	1.197	0.008	3911.9 3925.4	1.208 1.209	0.007 0.007
2775.3	1.161	0.010	3551.2	1.193	0.000	3663.1 3665.0	1.197 1.197	0.008 0.008	3925.4 3938.9	1.209	0.007
2788.8	1.157	0.010	3553.1	1.190		3665.0	1.197		3952.4	1.207	0.000
2802.3	1.165	0.010	3555.1	1.193	0.008	3666.9		0.008	3952.4 3965.9	1.212	0.007
2815.8	1.159	0.010	3557.0	1.189 1.192	0.008	3668.9 3670.8	1.196 1.194	0.008 0.008	3965.9 3979.4	1.212	0.000
2829.3	1.166	0.010	3558.9						3979.4 3992.9	1.211	
2842.8	1.166	0.010	3560.9	1.187	0.008	3672.7 3674.7	1.200 1.197	0.000	3992.9	1.212	0.000
2856.3	1.170	0.010	3562.8	1.191							
2869.8	1.164	0.010	3564.7	1.195	0.008	3676.6	1.203	0.000	Ĺ		

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c	1233 1233 1233 1233 1233 1233 1233 1233	1.410
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v (cm ⁻¹ )	732.5 732.5 732.5 732.5 732.5 732.5 732.5 732.5 732.5 746.0 744.0 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7 753.7	10001
11		2
F	1.545 1.546 1.547 1.547 1.646 1.647 1.647 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649 1.649	2
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=	1373 1373 1373 1373 1373 1373 1373 1373	4.00
v (cm ⁻¹ )	503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 503.0 50	\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;

TABLE 7D—Continued

				IADI	LE /D-	–Continue	<u> </u>				
v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2527.4	1.081	0.011	2883.3	1.170	0.010	3566.6	1.190	0.000	3678.5	1.205	0.008
2529.3	1.082	0.011	2896.8	1.170	0.010	3568.6	1.190	0.000	3680.4	1.203	0.008
2531.3	1.084	0.011	2910.3	1.169	0.010	3570.5	1.196	0.008	3682.4	1.203	0.008
2533.2	1.085	0.011	2923.8	1.176	0.010	3572.4	1.193	0.008	3684.3	1.202	0.008
2535.1	1.086	0.011	2937.3	1.176	0.010	3574.4	1.191	0.008	3686.2	1.201	0.008
2537.1 2539.0	1.088	0.011	2950.8 2964.3	1.180	0.010	3576.3	1.190	0.000	3688.2	1.205	0.008
2539.0	1.089	0.011	2904.3	1.175 1.178	0.000 0.010	3578.2 3580.1	1.196 1.192	0.008	3690.1 3692.0	1.209 1.208	0.008
2542.8	1.091	0.011	2991.3	1.178	0.009	3582.1	1.192	0.008	3693.9	1.208	0.008
2544.8	1.091	0.011	3004.8	1.182	0.009	3584.0	1.192	0.008	3695.9	1.209	0.008
2546.7	1.094	0.011	3018.3	1.181	0.009	3585.9	1.194	0.008	3697.8	1.216	0.008
2548.6	1.095	0.011	3031.8	1.181	0.009	3587.9	1.197	0.000	3699.7	1.219	0.008
2550.6	1.096	0.011	3045.3	1.180	0.009	3589.8	1.201	0.000	3701.7	1.224	0.008
2552.5	1.097	0.011	3058.8	1.180	0.009	3591.7	1.206	0.008	3703.6	1.237	0.008
2554.4	1.098	0.011	3072.3	1.179	0.000	3593.6	1.206	0.008	3705.5	1.257	0.016
2556.3	1.098	0.011	3085.8	1.184	0.009	3595.6	1.209	0.008	3707.5	1.304	0.067
2558.3	1.098	0.011	3099.3	1.183	0.009	3597.5	1.220	0.008	3709.4	1.118	0.157
2560.2	1.101	0.000	3112.9	1.182	0.009	3599.4	1.244	0.040	3711.3	1.132	0.024
2562.1	1.101	0.011	3126.4	1.183	0.009	3601.4	1.143	0.049	3713.2	1.160	0.016
2564.1	1.109	0.011	3139.9	1.183	0.009	3603.3	1.165	0.008	3715.2	1.171	0.016
2566.0	1.107	0.011	3153.4	1.182	0.009	3605.2	1.177	0.008	3717.1	1.175	0.016
2567.9	1.107	0.011	3166.9	1.182	0.009	3607.1	1.182	0.008	3719.0	1.177	0.016
2569.9	1.108	0.011	3180.4	1.184	0.009	3609.1	1.184	0.008	3721.0	1.176	0.016
2571.8	1.109	0.011	3193.9	1.178	0.009	3611.0	1.185	0.008	3722.9	1.182	0.008
2573.7	1.109	0.011	3206.9	1.173	0.009	3612.9	1.186	0.008	3724.8	1.180	0.008
2575.6	1.110	0.011	3220.4	1.170	0.009	3614.9	1.184	0.008	3726.7	1.183	0.008
2577.6	1.111	0.011	3233.9	1.170	0.009	3616.8	1.191	0.000	3728.7	1.185	0.008
2579.5	1.111	0.011	3247.4	1.169	0.009	3618.7	1.191	0.008	3730.6	1.187	0.008
2581.4	1.112	0.011	3260.9	1.168	0.009	3620.6	1.190	0.008	3732.5	1.187	0.008
2583.4	1.112	0.011	3274.4	1.170	0.009	3622.6	1.190	0.008	3734.5	1.188	0.008
2585.3	1.112	0.011	3287.9	1.172	0.009	3624.5	1.189	0.008	3736.4	1.189	0.008
2587.2	1.114	0.000	3301.4	1.172	0.009	3626.4	1.187	0.008	3738.3	1.189	0.008
2589.1	1.118	0.000	3314.9	1.173	0.009	3628.4	1.193	0.000	3740.2	1.190	0.008
2591.1	1.120	0.011	3328.4	1.171	0.000	3630.3	1.194	0.000	3742.2	1.190	0.008
2593.0	1.119	0.011	3341.9	1.172	0.009	3632.2	1.194	0.008	3744.1	1.188	0.008
2594.9	1.120	0.011	3355.4	1.177	0.000	3634.2	1.191	0.008	3746.0	1.193	0.008
2596.9	1.120	0.011	3368.9	1.180	0.009	3636.1	1.195	0.008	3748.0	1.191	0.008
2598.8	1.121	0.011	3382.4	1.178	0.009	3638.0	1.192	0.008	3749.9	1.190	0.000
2613.3	1.129	0.011	3395.9	1.181	0.009	3639.9	1.197	0.008	3763.4	1.195	0.008
2626.8	1.129	0.011	3409.4	1.179	0.009	3641.9	1.195	0.008	3776.9	1.197	0.008
2640.3	1.132	0.011	3422.9	1.178	0.008	3643.8	1.194	0.008	3790.4	1.196	0.000
2653.8	1.134	0.011	3436.4	1.182	0.008	3645.7	1.193	0.008	3803.9	1.202	0.008
2667.3	1.139	0.011	3449.9	1.182	0.008	3647.7	1.193	0.000	3817.4	1.202	0.000
2680.8	1.144	0.011	3463.4	1.182	0.008	3649.6	1.199	0.008	3830.9	1.201	0.008
2694.3	1.146	0.000	3476.9	1.181	0.008	3651.5	1.197	0.008	3844.4	1.207	0.008
2707.8	1.149	0.010	3490.4	1.185	0.008	3653.4	1.196	0.008	3857.9	1.205	0.000
2721.3	1.154	0.010	3503.9	1.184	0.008	3655.4	1.195	0.008	3871.4	1.206	0.000
2734.8	1.153	0.000	3517.4 3531.0	1.187	0.000	3657.3 3659.2	1.196	0.000	3884.9	1.207	0.007
2748.3 2761.8	1.154 1.158	0.000	3531.0 3544.5	1.188 1.187	0.000	3659.2 3661.2	1.198 1.197	0.008	3898.4 3911.9	1.208 1.209	0.000 0.007
	1.158	0.000	3544.5 3551.2	1.187	0.008	3663.1	1.197	0.008	3911.9 3925.4		
2775.3 2788.8	1.162	0.000	3553.1	1.190	0.008	3665.0	1.197	0.008	3925. <del>4</del> 3938.9	1.210 1.208	0.000 0.007
	1.162	0.010	3555.1	1.189	0.008	3666.9	1.196	0.008	3952.4	1.210	0.007
2802.3 2815.8	1.161	0.010	3557.0	1.187	0.008	3668.9	1.196	0.008	3952.4	1.210	0.007
2829.3	1.164	0.010	3558.9	1.191	0.008	3670.8	1.194	0.008	3979.4	1.207	0.007
2829.3	1.164	0.010	3560.9	1.191	0.008	3672.7	1.198	0.008	3979.4	1.211	0.007
2856.3	1.167	0.010	3562.8	1.192	0.000	3674.7	1.196	0.008	3774.7	1.211	0.007
2869.8	1.171	0.010	3564.7	1.192	0.000	3676.6	1.201	0.000			
4007.0	1.1/1	0.010	3304.1	1.171	0.000	3070.0	1.201	0.000	L		

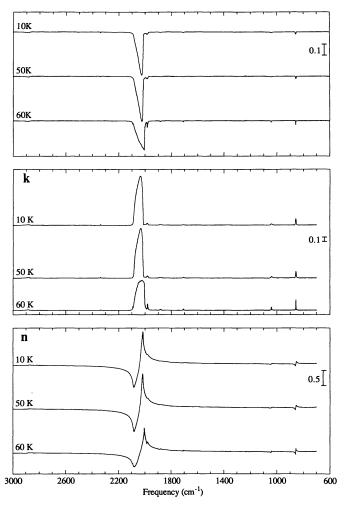


Fig. 8.—The 3000 to  $600~\rm cm^{-1}$  transmission spectra and optical constants (n and k) of a pure OCS ice at temperatures of 10, 50, and 60 K. The original ice was deposited at 10 K.

<b>k</b>	0.000	0.000		0.000	0.000	0.000	900	00.00	0000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.00		100.0	000	0.001	0.001	0.001	0.001	0.001	0.008	0.0	0.007	0.007	0.005	0.003	0.000	0.00	800	0.000	0.000				
u	1.197	1.199	1.199	1.201	1.203	25.2	4 5	1.205	1.205	1.207	1.207	1.209	1.210	1.209	1.210	1.211	1.211	1.212	1.212	1.212	1.215	1.214	1.214	1.215	1.214	1.216	1.216	1.216	1.218	917.1	1 218	1 210	1.220	1.221	1.221	1.221	1.223	1.226	1.232	1 217	1.215	1.215	1.215	1.216	1.217	1.218	1.219	1.219	1.220				
v (cm ⁻¹ )	2479.7	2489.3	2508 6	2518.2	2527.9	2537.5	2547.2	25665	2576.1	2585.8	2595.4	2605.1	2614.7	2624.3	2634.0	2643.6	2653.3	5007.9	2672.6	2082.2	2691.9	2/01.5	2711.1	2720.8	2730.4	2740.1	2749.7	2759.4	2/69.0	7,100	2707.0	2807.6	2817.2	2826.9	2836.5	2846.2	2855.8	2865.5	7007	2804.0	2904.0	2913.7	2923.3	2933.0	2942.6	2952.3	2971.6	2981.2	2990.8				
k	0.000	0.000		0.00	0.000	000	36	000	0000	0.00	0000	0.00	0.000	0.000	0.00	000	0.00	0.00	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.00	38	30	0000	0000	0.00	0.000	0.00	0.00	0000	36		0000	0.00	0.000	0.00	0.00	900	000	0.000	0.000	0.00		0.000	
u u	1.025	1.030	1.03	1.043	1.046	1.049	1.052	1.05	2 2 4	1.068	1.071	1.074	1.077	1.080	1.082	1.085	1.087	1.090	1.092	1.094	1.096	1.098	1.099	1.102	1.103	1.105	1.108	50:	1.13	1.120	1.130	3 4	1.149	1.153	1.157	1.161	25.5	201.	1.1/1	1.183	1.170	1.177	1.181	1.182	1.18	1.186	1.189	1.191	1.192	1.193	1.18	1.197	
v (cm ⁻¹ )	2143.1	2145.0	2140.9	2150.8	2152.7	2154.6	2158.5	2160.4	2162.4	2164.3	2166.2	2168.1	2170.1	2172.0	2173.9	2175.9	2177.8	71/9./	2181.6	2183.6	2185.5	2187.4	2189.4	2191.3	2193.2	2195.2	2197.1	2199.0	2209.6	2219.3	2238 6	2248.2	2257.8	2267.5	2277.1	2286.8	2296.4	2306.1	72757	2335.0	2344.6	2354.3	2363.9	2373.6	2383.2	2392.9	2412.2	2421.8	2431.4	2441.1	2460.4	2470.0	
k	1.131	1.142	1.149	1.135	1.123	1.107	1.086	100	1015	0.992	0.964	0.936	0.908	0.882	0.849	0.816	0.780	0.741	0.705	0.000	0.623	0.576	0.522	0.462	0.393	0.317	0.225	0.135	0.080	0.052	0.03	0.023	0.016	0.00	0.007	0.00	0.002	0.003	36	0.00	0000	0.000	0.001	0.000	0.000	900	0000	0.000	0.000	0000	0000	0.000	
а	1.662	1.579	1.498	1.349	1.281	1.220	101.1	1.105	1.030	0.965	0.920	0.880	0.840	0.803	0.766	0.729	0.694	0.062	0.630	0.00	0.5/1	0.342	0.516	0.490	0.471	0.460	0.469	0.508	0.269	0.024	0.07	0.743	0.772	0.796	0.818	0.837	0.856	0.8/2	0.888	0 917	0.924	0.935	0.943	0.953	0.962	0.970	0.984	0.991	0.998	1.003	1.013	1.020	
v (cm ⁻¹ )	2031.2	2033.1	2032.0	2038.9	2040.8	2042.8	2044.7	2048.6	2050.5	2052.4	2054.3	2056.3	2058.2	2060.1	2062.1	2064.0	2065.9	2007.8	2069.8	20/1./	20/3.6	20/2.6	2077.5	2079.4	2081.3	2083.3	2085.2	2087.1	2089.1	0.007	2097.9	2096.8	2098.7	2100.6	2102.6	2104.5	2106.4	2108.3	2110.3	2117	2116.1	2118.0	2119.9	2121.9	2123.8	2125.7	2129.6	2131.5	2133.4	2135.4	2139.2	2141.1	
×	0.005	0.005	0.00	0.005	0.005	0.003	0.00	0000	0000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.00	0.005	0.00	0.00	0.00	0.00	0.007	0.007	0.00	0.008	0.013	0.019	0.028	252	0.051	0.049	0.041	0.031	0.025	0.020	0.018	0.018	0.018	0.017	0.016	0.015	0.016	0.030	0.146	0.639	0.791	0.899	0.977	1.078	1.107	
и	1.401	1.403	400	1.412	1.415	1.418	1.421	1 428	1.432	1.435	1.439	1.444	1.448	1.452	1.457	1.462	1.468	1.4 /4	1.480	1.485	1.493	1.499	500	1.514	1.523	1.534	1.545	1.557	0/5.1	1.361	1.589	1.591	1.594	1.600	1.613	1.631	1.653	1.6/8	1.72	1 765	1.804	1.852	1.914	1.997	2.123	2.293	2.322	2.231	2.131	2.029	1.840	1.749	
v (cm ⁻¹ )	1919.3	1921.2	1925.2	1927.0	1929.0	1930.9	1932.8	1936 7	1938.6	1940.5	1942.5	1944.4	1946.3	1948.2	1950.2	1952.1	1954.0	1956.0	1957.9	1959.8	1961.7	1963.7	1965.6	1967.5	1969.5	1971.4	1973.3	1975.3	1977.2	10610	1983.0	1984.9	1986.8	1988.8	1990.7	1992.6	1994.5	1996.5	2000.4	2002.3	2004.2	2006.1	2008.0	2010.0	2011.9	2013.8	2017.7	2019.6	2021.5	2023.5	2027.3	2029.3	
k	0.005	0.005	0.00	0.005	0.005	0.001	0.005	0.00	000	0.005	0.005	0.002	0.002	0.002	0.005	0.005	0.005	0.00	0.005	0000	0.002	0.003	0.003	0.005	0.005	0.005	0.00	0.005	0.003	200.0	0.00	800.0	0.011	0.011	0.014	0.017	0.017	0.017	0.017	0.010	0.014	0.011	0.011	0.008	0.005	0.000	0.00	0.005	0.005	0.005	0.005	0.005	0.005
c	1.295	1.295	1 296	1.299	1.299	1.300	308	1308	1.300	1.303	1.306	1.308	1.313	1.314	1.318	1.320	1.324	1.320	1.330	1.334	1.340	1.345	1.350	1.351	1.352	1.353	1.354	1.356	1.357	1.359	1364	1 365	1.367	1.368	1.368	1.369	1.367	1.36/	1.367	366	1.365	1.366	1.367	1.370	1.372	1.3/5	1.381	1.383	1.385	1.388	1.383	1.396	1.398
v (cm ⁻¹ )	1620.3	1630.0	16493	1658.9	1668.5	1678.2	1607.5	17071	1716.8	1726.4	1736.1	1745.7	1755.3	1765.0	1774.6	1784.3	1793.9	1803.6	1813.2	1822.9	1832.5	1842.2	821.8	1835.7	1855.7	1857.6	1839.3	1861.4	1803.4	1867.3	1869.2	1871 1	1873.0	1874.9	1876.9	1878.8	1880.7	1882.7	1886.5	1888.4	1890.4	1892.3	1894.2	1896.2	1898.1	1900.0	1903.9	1905.8	1907.7	1909.7	1913,5	1915.5	1917.4
k	900.0	0.006	000	9000	0.006	0000	98	000	0.005	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.000	0.003	0.000	0.00	0.000	0.005	0.00	0.005	0.005	0.00	0.003	90.0	0.00	0.00	0.00	0.00	0.005	0.000	0.005	0.005	0.00	0.00	0.005	0.005	0.000	0.005	0.005	0.005	0.00	0.005	0.001	0.001	0.001	0.005	0.005	0.005
u	1.264	1.263	1 265	1.264	1.264	1.263	1 267	1 269	1.266	1.267	1.267	1.267	1.269	1.268	1.269	1.269	1.267	1.20/	1.272	7/7:1	1.209	1.274	1.273	7/77	1.272	1.2/4	1.2/4	1.2/2	1.2/4	1.274	1 275	1.275	1.275	1.276	1.274	1.277	1.278	1.77	1 270	1.280	1.281	1.282	1.281	1.282	1.283	1 283	1284	1.285	1.285	1.288	1.289	1.291	1.290
v (cm ⁻¹ )	1089.9	1091.8	1095.7	9.7601	1099.5	1109.1	1118.8	1138.1	1147.7	1157.4	1167.0	1176.7	1186.3	1196.0	1205.6	1215.2	1224.9	1234.5	1244.2	1233.8	1203.5	12/3.1	1282.8	4.2621	1302.0	1311./	1321.3	1331.0	1340.0	1350.0	1369.6	1379.2	1388.8	1398.5	1408.1	1417.8	1427.4	143/.1	1440.7	1466.0	1475.7	1485.3	1494.9	1504.6	1514.2	1533 5	1543.2	1552.8	1562.5	1572.1	1591.4	1601.0	1010.7
k	0.007	0.007	200	0.007	0.006	0.000	900	0000	900.0	9000	9000	0.006	9000	90.0	90.0	0.000	0000	93.5	0.000	93.0	0.000	0000	0000	25.5	0.000	0.012	0.012	0.017	710.0	270.0	0.028	0.033	0.033	0.028	0.022	0.011	0.006	9 8	900	0.00	9000	0.006	0.006	0.006	0.00	960	0.006	9000	0.006	0.00	0.006	0.006	0.000
и	1.260	1.259	1.259	1.267	1.264	1.265	1.265	1.266	1.267	1.269	1.268	1.268	1.269	1.269	1.269	697.1	1.270	1/7:1	1.271	1.2/1	1.272	1.273	1.2/4	0.77.1	6/7.1	1.278	1.280	1.278	1.419	1.277	1.270	1.264	1.257	1.249	1.247	1.247	1.250	1.234	1 257	1.258	1.259	1.258	1.262	1.262	1.262	1.202	1.262	1.262	1.260	1.265	1.264	1.264	707
v (cm ⁻¹ )	0.968	897.9	909.5	919.2	928.8	938.4	946.1	967.4	977.0	7.986	996.3	1001	1003.1	1005.0	1006.9	1008.8	1010.8	1012.7	1014.6	1010.0	1018.3	1020.4	1022.3	1024.3	1026.2	1028.1	1030.1	1032.0	1035.9	1032.8	1039.7	1041.6	1043.6	1045.5	1047.4	1049.4	1051.3	1055.2	1055.1	1059.0	1060.9	1062.9	1064.8	1066.7	1068.6	1070.6	1074.4	1076.4	1078.3	1080.2	1084.1	1086.0	108/.9
k	800.0	0.008	000	0.000	0.000	0.00		0000	0.007	0.000	0.000	0.000	0.00	0.007	7000	0.00	0.007	700.0	0.00	0.00	30.0	0.00	0.00	3.00	0.00	30.0	0.00	200	30.0	900	0000	0.014	0.014	0.039	0.083	0.130	0.149	0.120	0.070	9000	0.007	0.007	0.00	0.007	0.007	0.00	0.007	0.007	0.007	0.007	0.007	0.007	0.000
С	1.275	1.272	1.272	1.274	1.272	1.2/4	1 270	1.275	1.275	1.275	1.274	1.280	1.278	1.281	1.279	677	1.278	0/7:1	1.276	1.201	1.2/7	507.1	1.204	1.284	1.284	1 207	1.20/	1 204	1.294	1 200	1.307	1.312	1.325	1.344	1.344	1.318	1.261	1.203	1.102	1.214	1.228	1.234	1.243	1.243	1.250	1.250	1.255	1.255	1.256	1.256	1.257	1.257	1.228
v (cm ⁻¹ )	708.9	718.5	737.8	747.5	757.1	7,66.8	786.1	795.7	801.5	803.4	805.3	807.3	809.2	811.1	813.1	815.0	816.9	0.000	870.8	1.770	0.420	0.020	626.3	930.4	832.3	834.3	020.7	838.1	040.I	843.0	845.9	847.8	849.7	851.6	853.6	855.5	857.4	639.4	863.2	865.1	867.1	0.698	870.9	872.9	874.8	878.6	880.6	882.5	884.4	886.4	890.2	892.1	894.1

¥	000000000000000000000000000000000000000	
-	1200 1200 1200 1200 1200 1200 1200 1200	
v (cm ⁻¹ )	24897.7 24897.7 24897.7 2558.6 2558.6 2558.6 2556.8 2556.8 2556.8 2556.8 2556.8 2556.8 2556.8 2556.8 2556.8 256.7 256.7 256.7 256.7 256.7 256.7 256.7 256.7 256.7 256.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7 266.7	
¥		0.000
=	1003 1003 1003 1003 1003 1003 1003 1003	1.198
v (cm ⁻¹ )	2155.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1 2175.1	2470.0
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V (cm ⁻¹ )	1093.7 1093.7 1093.7 1093.7 1093.7 1093.7 1118.8 1118.8 1118.8 1118.8 1118.8 1118.8 1118.8 1118.8 1118.8 1118.8 1118.8 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 1118.3 11	1601.0
¥	00000000000000000000000000000000000000	0.000
=	1258 1258 1258 1258 1258 1258 1258 1258	1.262
V (cm ⁻¹ )	897.9 897.9 899.9 899.9 899.9 899.9 899.9 896.7 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1 1000.1	1086.U 1087.9
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- 1	1273 1273 1273 1273 1273 1273 1273 1273	1.256
v (cm ⁻¹ )	7.28 2.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	894.1 894.1

×	000	0.000		0.000	0.000	0.00	0.00	0.001	0.000	0.001	0.001	0.000	000	0.000	0.000	0.001	0.000	0.00	0.00	0.000	0.000	0.001	0.001	0.001	0000	9.0	0000	0.001	0.001	0.001	0.000	100.0	0.000	0.001	0.002	0.00	0.011	0.005	0.005	0.00	0.001	0.001	0.00		0.001				
=	1 207	1.208	208	1.211	1.210	1.211	1.212	1.213	1.213	1.214	1.214	517.1	1.216	1.217	1.217	1.217	1.218	1.21/	1 219	1.219	1.220	1.220	1.220	1.221	1.221	1 222	1 222	1.222	1.222	1.224	1.225	1 224	1.227	1.227	1.230	1 227	1.220	1.219	1.219	1.221	1.222	1.222	1.223	1 223	1.225				
v (cm ⁻¹ )	24707	2489.3	2508.6	2518.3	2527.9	2537.5	2556.8	2566.5	2576.1	2585.8	2595.4	2603.1	2624.3	2634.0	2643.6	2653.3	5,007	2672.6	2,7907	2701.5	2711.1	2720.8	2730.4	2740.1	2749.7	7769.0	2778.7	2788.3	2797.9	2807.6	2817.2	2820.9	2846.2	2855.8	2865.5	2884.8	2894.4	2904.0	2913.7	2933.0	2942.6	2952.3	2961.9	2981.2	2990.8				
<b>K</b>	000	0.00		0.000	0.000	0000	000	0.000	0.000	0.00	0.000	0.00	300	0.00	0.000	0.000	0.000	0.000	0000	0000	0.000	0.000	0.000	0.000	0.00	0.00	000	0.000	0.000	0.000	0.00	88	0.00	0.000	0.00	800	0.011	0.000	0.00	0000	0.000	0.000	0.00		0.000	0.000	0 0 0 0 0 0	0.000	
c	1 078	1.082	1.083	1.091	1.093	1.096	1.101	1.105	1.107	1.110	1.112	CII.1	1.117	1.121	1.123	1.125	1.126	1.128	13.5	1.133	1.135	1.136	1.138	1.139	1.140	1.142	1.154	1.157	1.163	1.166	1.170	1.175	1.179	1.182	1.185	1.169	1.194	1.189	1.192	1.195	1.196	1.198	1.198	202	1.201	1.204	1.205	1.206	
v (cm ⁻¹ )	2143 1	2145.0	2146.9	2150.8	2152.7	2154.6	2158.5	2160.4	2162.4	2164.3	2166.2	2168.1	2172.0	2173.9	2175.9	2177.8	2179.7	2181.6	2185.5	2187.4	2189.4	2191.3	2193.2	2195.1	2197.1	2200.6	22193	2228.9	2238.6	2248.2	2257.8	2777 1	2286.8	2296.4	2306.1	2325.4	2335.0	2344.6	2354.3	2373.6	2383.2	2392.9	2402.5	2412.7	2431.4	2441.1	2450.7 2460.4	2470.0	
×	0890	0.677	0.682	0.682	0.672	0.658	0.657	0.656	0.647	0.632	0.611	5,675	0.551	0.529	0.510	0.485	0.459	0.432	0.374	0.339	0.302	0.264	0.225	0.186	0.153	0.100	0.070	0.095	0.046	0.039	0.017	0.011	0.000	0.007	0.00	0.00	0.002	0.003	0.003	000	0.001	0.002	0.000		0.000	0.000	000	0.000	
∥ ¤	1 204	1.275	1 224	1.191	1.162	1.138	1.122	1.063	1.030	0.998	0.970	0.943	0.921	0.876	0.856	0.835	0.817	0.800	0.77	0.756	0.747	0.743	0.743	0.748	0.757	0.7.2	0.0	0.855	0.855	0.870	0.891	0.913	0.947	0.959	0.972	0.963	0.999	1.008	1.015	1.027	1.033	1.038	1.043	1.05	1.059	1.063	1.069	1.074	
v (cm ⁻¹ )	2031.2	2033.1	2035.0	2038.9	2040.8	2042.8	2046.6	2048.6	2050.5	2052.4	2054.3	2056.3	2050.2 2060 1	2062.1	2064.0	2065.9	2067.8	2069.8	2073.6	2075.6	2077.5	2079.4	2081.3	2083.3	2085.2	2080.1	2091.0	2092.9	2094.8	2096.8	2098.7	2100.6	2104.5	2106.4	2108.3	2112.2	2114.1	2116.1	2118.0	2121.9	2123.8	2125.7	2127.6	2131.5	2133.4	2135.4	2139.2	2141.1	
	2000	0.005	0.00	0.005	0.005	0.005	0.00	0.005	0.005	0.005	0.005	0.00%	800	0.008	0.008	0.008	0.008	0.010	0.010	0.012	0.012	0.012	0.012	0.014	0.018	0.020	0.051	0.082	0.143	0.095	0.041	0.032	0.035	0.045	0.062	0.100	0.136	0.461	0.614	0.040	0.665	0.673	0.679	0.08	0.697	0.701	0.698	0.691	
l a	1 370	1.382	1.384	1.390	1.393	1.396	1.599	1.406	1.410	1.415	1.419	1.423	1.420	1.436	1.441	1.447	1.452	1.459	1.473	1.481	1.488	1.497	1.509	1.521	1.535	1.572	1 592	1.597	1.581	1.523	1.552	1.591	1.66	1.707	1.756	1.856	2.010	2.062	1.917	1.801	1.662	1.615	1.573	1.333	1.456	1.421	1.385	1.320	
v (cm ⁻¹ )	1010 3	1921.2	1923.2	1927.0	1929.0	1930.9	1934.7	1936.7	1938.6	1940.5	1942.5	1944.4	1940.5	1950.2	1952.1	1954.0	1956.0	1957.9	1961 7	1963.7	1965.6	1967.5	1969.5	1971.4	1973.3	1077.9	19791	1981.0	1983.0	1984.9	1986.8	1988.8	1992.6	1994.5	1996.5	2000 3	2002.3	2004.2	2006.1	2010.0	2011.9	2013.8	2015.8	2010.7	2021.5	2023.5	2025.4		
*	100	0.00	200	0.00	0.004	0.00	0.0	0.034	0.004	0.004	20.0	0.00	0.00	0.002	0.002	0.002	0.002	0.002	200.0	0.00	0.005	0.005	0.005	0.005	0.005	0.003	0.00	0.005	0.005	0.005	0.005	0.005	0.00	0.025	0.025	0.025	0.022	0.011	0.008	0.005	0.00	0.005	0.005	0.002	0.003	0.003	0.003	0.005	0.00
=	1 284	1.284	1.285	1.286	1.288	1.288	1.289	1.300	1.289	1.292	1.292	1.296	1.298	1.303	1.306	1.309	1.310	1.314	1.519	1 327	1.332	1.332	1.335	1.335	1.336	1.337	1.338	1.341	1.343	1.344	1.347	1.350	1.359	1.356	1.349	1.346	1 339	1.340	1.344	1.346	1.352	1.354	1.357	1.360	1.365	1.368	1.369	1.376	1.077
v (cm ⁻¹ )		1630.0	1639.6	1658.9	1668.5	1678.2	1697.5	1707.1	1716.8	1726.4	1736.1	1745.7	1765.0	1774.6	1784.3	1793.9	1803.6	1813.2	1922.5	1842.2	1851.8	1853.7	1855.7	1857.6	1859.5	1861.4	1863.4	1867.2	1869.2	1871.1	1873.0	1874.9	1878.8	1880.7	1882.7	1884.6	1888 4	1890.4	1892.3	1894.2	1898.1	1900.0	1901.9	1903.9	1907.7	1909.7	1911.6	1915.5	1717.7
<u> </u>	9000	0.006		0.006	0.006	0.000	0.00	0.000	0.000	0.005	0.000	0.005	000	0.005	0.000	0.005	000	0.005	9.0	0.00	0000	0.000	0.000	0.00	0.005	0.00	0.00	0.005	0.000	0.005	0.000	0.00	000	0.000	0.005	000		0.000	0.000	0.00	0.000	0.005	0.005	90.0	0.0	0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	7.75
E	1 250	1.261	1 261	1.261	1.260	1.262	1.259	1.263	1.262	1.263	1.262	1.262	1 263	1.262	1.263	1.265	1.266	1.266	1 263	1.265	1.266	1.265	1.267	1.268	1.265	007.1	2007.1	1.268	1.266	1.265	1.267	1.268	1.272	1.271	1.270	1.272	1.273	1.273	1.275	1.278	1.278	1.276	1.277	1.277	1.278	1.278	1.280	1.281	1.401
v (cm ⁻¹ )	10800	1091.8	1095.7	1097.6	1099.5	1109.2	1128.4	1138.1	1147.7	1157.4	1167.0	1176.7	11960	1205.6	1215.2	1224.9	1234.5	1244.2	1263.6	1273.1	1282.8	1292.4	1302.0	1311.7	1321.3	1331.0	1340.0	1359.9	1369.6	1379.2	1388.8	1398.5	1417.8	1427.4	1437.1	1446./	1466.0	1475.7	1485.3	1504.9	1514.2	1523.9	1533.5	1543.2	1562.5	1572.1	1581.7	1601.0	10101
<b>X</b>	0.000	0.007		9000	0.006	0.000	900	0.000	90.0	0.00	9000	0.000	0.00	0.006	0.006	9000	0.000	0.00	90.0	0000	9000	9000	900.0	0.006	0.000	0.011	0.011	0.017	0.028	0.061	0.039	0.011	0.000	0.000	0.000	0.000	0000	9000	0.000	90.0	0000	0.000	0.006	9000	0.000	0.006	0.000	0.00	27.75
c	1 255	1.252	1.255	1.258	1.258	1.262	1.263	1.263	1.263	1.264	1.262	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1 263	1.265	1.267	1.265	1.269	1.269	1.272	1.2/1	1.2/1	1.277	1.283	1.272	1.224	1.233	1.246	1.248	1.254	1,255	1.255	1.255	1.254	1.259	1.255	1.258	1.260	1.257	1.260	1.258	1.260	1.259	1.401
v (cm ⁻¹ )	0 968	897.9	999.9	919.2	928.8	938.4	946.1	967.4	977.0	2.986	996.3	1001.1	1005.0	1006.9	1008.8	1010.8	1012.7	1014.6	1018.5	1020.4	1022.3	1024.3	1026.2	1028.1	1030.1	1032.0	1035.9	1037.8	1039.7	1041.6	1043.6	1045.5	1049.4	1051.3	1053.2	1055.1	1059.0	1060.9	1062.9	1064.8	1068.6	1070.6	1072.5	10/4.4	1078.3	1080.2	1082.1	1086.0	1001.7
k	8000	0.008	800	0.000	0.008	0.008	000	0.000	0.007	0.00	0.007	0.000	300	0.007	0.000	0.000	0.00	0.007	200	0.007	0.000	0.007	0.007	0.000	0.000	36	0.00	0.007	0.014	0.007	0.007	0.00	0.032	0.244	0.100	0.034	0.000	0.007	0.007	0.007	0.007	0.007	0.000	0.00	0.007	0.007	0.000	0.000	3
c	1 268	1.268	1.267	1.267	1.266	1.265	1.265	1.264	1.268	1.266	1.264	1.209	1 268	1.268	1.267	1.269	1.268	1.271	1 267	1.271	1.269	1.274	1.270	1.275	1.276	1.270	1 280	1.282	1.285	1.283	1.291	1.302	1.352	1.310	1.170	1.184	1.224	1.236	1.237	1.243	1.250	1.248	1.248	1 252	1.252	1.251	1.251	1.257	3.4.70
v (cm ⁻¹ )	708 0	718.5	737.8	747.5	757.1	777	786.1	795.7	801.5	803.4	805.3	807.3	809.2	813.1	815.0	816.9	818.8	820.8	824.6	826.6	828.5	830.4	832.3	834.3	836.2	838.1	842.0	843.9	845.9	847.8	849.7	851.6	855.5	857.4	859.4	801.3	865.1	867.1	0.698	870.9	874.8	876.7	878.6	880.6	884.4	886.4	888.3 890.2	892.1	027.1

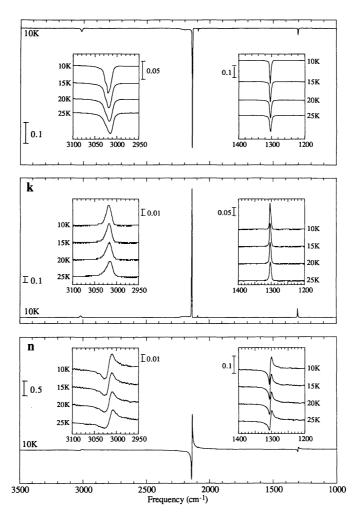


FIG. 9.—The 3500 to  $1000~\rm cm^{-1}$  transmission spectrum and optical constants (n and k) of a CO:CH₄ = 20:1 ice mixture at 10 K. The insets show expansions of the CH₄ features in the 3100 to 2950 cm⁻¹ and 1400 to 1200 cm⁻¹ regions for the ice at temperatures of 10, 15, 20, and 25 K. The original ice was deposited at 10 K.

TABLE 9A CO: $CH_4 = 20:1 \text{ AT } 10 \text{ K}$ 

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v (cm-1) 1230.7 1230.7 1233.6 1233.6 1234.5 1234.5 1234.5 1234.5 1234.5 1234.5 1234.5 1234.5 1234.6 1234.6 1234.7 1244.2 1244.2 1244.2 1244.2 1244.2 1244.2 1244.2 1244.2 1245.1 1248.0 1255.0 1255.0 1255.0 1255.6 1255.6 1255.7 1255.6 1255.7 1255.7 1255.6 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7 1255.7	1266.4 1266.4 1266.4 1268.3 1269.3 1269.3 1270.2 1271.1 1274.1 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 12
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V (cm-1) 1007.9 1007.9 1007.9 1007.9 1007.9 1008.6 1008.6 1008.6 1008.6 1008.6 1008.6 1008.6 1008.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7 1120.7	120755 120755 1208.5 1210.4 1211.4 1211.3 1215.2 1216.2 1216.2 1217.2 1217.2 1217.2 1217.2 1221.0 1223.0 1223.0 1224.9 1226.8 1226.8 1226.8 1226.8

TABLE 9A—Continued

V (cm ⁻¹ )					IADL		-Commuec					
2864.5         1.295         0.002         2988.4         1.299         0.000         3045.3         1.288         0.002         3117.2         1.230         0.000         2873.2         1.296         0.002         2991.3         1.301         0.000         3047.3         1.289         0.002         3121.5         1.293         0.002           2881.9         1.296         0.002         2991.3         1.301         0.002         3049.2         1.289         0.002         3121.5         1.294         0.002           2880.5         1.296         0.002         2994.2         1.301         0.002         3049.2         1.289         0.002         3134.6         1.294         0.002           2899.9         1.296         0.002         2995.1         1.302         0.000         3052.1         1.290         0.002         3147.6         1.294         0.002           2903.6         1.296         0.002         2998.1         1.302         0.002         3055.0         1.290         0.002         3147.6         1.294         0.002           291.2         1.296         0.002         2998.1         1.304         0.002         3055.0         1.290         0.002         3147.6         1.294												
2888.8         1.296         0.002         2989.4         1.300         0.000         3046.3         1.289         0.002         3117.2         1.293         0.002           2877.5         1.296         0.002         2991.3         1.301         0.002         3048.2         1.288         0.002         3125.9         1.293         0.002           2886.2         1.296         0.002         2993.3         1.301         0.002         3048.2         1.289         0.002         3130.2         1.293         0.002           2894.9         1.296         0.002         2995.2         1.302         0.000         3052.1         1.290         0.002         3134.6         1.294         0.000           2899.2         1.296         0.002         2995.1         1.302         0.002         3053.1         1.290         0.002         3147.6         1.294         0.002           2903.6         1.296         0.002         2999.1         1.302         0.002         3054.0         1.290         0.002         3147.6         1.294         0.002           291.6         0.12         299.0         1.304         0.002         3055.9         1.291         0.002         315.9         1.295 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
2873.2         1.295         0.002         299.04         1.301         0.000         3047.3         1.289         0.002         312.15         1.294         0.002           2881.9         1.296         0.002         299.3         1.301         0.002         3049.2         1.288         0.002         313.02         1.293         0.002           2880.5         1.296         0.002         2994.2         1.301         0.002         305.1         1.290         0.002         3134.6         1.294         0.002           2889.2         1.296         0.002         2994.2         1.302         0.002         305.1         1.290         0.002         3143.2         1.295         0.002           2903.6         1.296         0.002         2998.1         1.302         0.002         3055.0         1.290         0.002         3147.6         1.294         0.002           2916.6         1.296         0.002         2991.1         1.303         0.002         3055.0         1.290         0.002         3156.3         1.294         0.002           2912.2         1.296         0.002         3000.0         1.304         0.002         3055.0         1.290         0.002         3166.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
2877.5         1.295         0.002         2991.3         1.301         0.002         3048.2         1.288         0.002         3125.9         1.294         0.002           2886.2         1.296         0.002         2994.2         1.301         0.002         3052.1         1.290         0.002         3134.6         1.294         0.002           289.5         1.296         0.002         2995.2         1.302         0.000         3051.1         1.290         0.002         3143.6         1.295         0.002           289.9         1.296         0.002         2997.1         1.302         0.002         3053.1         1.290         0.002         3147.6         1.295         0.002           2907.9         1.296         0.002         2999.1         1.302         0.002         3055.9         1.290         0.002         3150.9         1.002         3151.9         1.295         0.002           2916.6         1.296         0.002         3001.0         1.304         0.002         3055.9         1.291         0.002         3160.6         1.295         0.002           2925.3         1.296         0.002         3001.0         1.304         0.002         305.8         1.291 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
2881.9         1.296         0.002         2992.3         1.301         0.002         309.2         1.290         0.002         3134.6         1.294         0.002           2890.5         1.296         0.002         2994.2         1.301         0.002         3051.1         1.290         0.002         3134.6         1.294         0.002           2894.9         1.296         0.002         2995.1         1.302         0.002         3053.1         1.290         0.002         3143.2         1.295         0.002           2903.6         1.296         0.002         2997.1         1.303         0.002         3053.1         1.290         0.002         3147.6         1.294         0.002           2912.2         1.296         0.002         2999.0         1.304         0.002         3055.9         1.291         0.002         3164.9         1.294         0.002           291.2         1.296         0.002         3001.0         1.304         0.002         3057.9         1.291         0.002         3164.9         1.294         0.002           2929.6         1.296         0.002         3001.9         1.305         0.002         3058.8         1.291         0.002         3173.6         <				2990.4								
2886.2   1.296   0.002   2993.3   1.300   0.000   3050.2   1.290   0.002   3134.6   1.294   0.002   2894.5   1.296   0.002   2995.2   1.301   0.002   3051.1   1.290   0.002   3143.2   1.295   0.002   2894.9   1.296   0.002   2995.1   1.302   0.002   3052.1   1.290   0.002   3143.2   1.295   0.002   2903.6   1.296   0.002   2995.1   1.303   0.002   3054.0   1.290   0.002   3151.9   1.295   0.002   2907.9   1.296   0.002   2999.1   1.304   0.002   3055.0   1.290   0.002   3160.6   1.295   0.002   2916.6   1.296   0.002   2999.1   1.304   0.002   3055.0   1.290   0.002   3160.6   1.295   0.002   2920.9   1.296   0.002   3001.0   1.304   0.002   3055.0   1.291   0.002   3160.6   1.295   0.002   2920.9   1.296   0.002   3001.0   1.304   0.002   3055.9   1.291   0.002   3160.6   1.295   0.002   2925.3   1.296   0.002   3001.9   1.305   0.002   3057.9   1.291   0.002   3169.3   1.295   0.002   2925.3   1.296   0.002   3002.9   1.305   0.002   3058.8   1.291   0.002   3178.0   1.295   0.002   2933.9   1.297   0.002   3002.9   1.305   0.002   3058.8   1.291   0.002   3178.0   1.296   0.002   2933.9   1.297   0.002   3003.9   1.306   0.002   3060.8   1.291   0.002   3178.0   1.296   0.002   2941.6   1.297   0.002   3005.8   1.311   0.004   3062.7   1.290   0.002   3186.6   1.295   0.002   2941.6   1.297   0.002   3005.8   1.311   0.004   3062.7   1.290   0.002   3191.0   1.294   0.002   2951.8   1.297   0.002   3007.8   1.313   0.015   3065.6   1.291   0.002   3191.0   1.294   0.002   2951.8   1.297   0.002   3007.8   1.313   0.015   3065.6   1.291   0.002   3191.0   1.295   0.002   2951.8   1.297   0.002   3007.8   1.313   0.015   3065.6   1.291   0.002   3224.1   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.015   3065.5   1.291   0.002   3224.1   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.015   3065.5   1.291   0.002   3224.1   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.015   3065.6   1.291   0.002   3224.1   1.295   0.002   2955.6   1.297   0.002   3011.5   1.310   0.												
2890.5         1.296         0.002         2994.2         1.301         0.002         3052.1         1.290         0.002         3143.2         1.295         0.002           2894.9         1.296         0.002         2995.1         1.302         0.002         3053.1         1.290         0.002         3143.2         1.295         0.002           2903.6         1.296         0.002         2999.1         1.302         0.002         3054.0         1.290         0.002         315.3         1.294         0.002           2912.2         1.296         0.002         2999.0         1.304         0.002         3055.9         1.291         0.002         3164.9         1.294         0.002           2916.6         1.296         0.002         3001.0         1.304         0.002         3055.9         1.291         0.002         3164.9         1.294         0.002           2929.6         1.296         0.002         3001.9         1.305         0.002         3057.9         1.291         0.002         3173.6         1.292         0.002         3173.6         1.292         0.002         3173.6         1.292         0.002         3173.6         1.292         0.002         3173.6         1.292												
2884.9         1.296         0.002         2995.2         1.302         0.002         3053.1         1.290         0.002         3147.6         1.294         0.002           2897.6         1.296         0.002         2998.1         1.302         0.002         3053.1         1.290         0.002         3151.9         1.295         0.000           2907.9         1.296         0.002         2999.1         1.302         0.002         3055.0         1.290         0.002         3163.6         1.295         0.002           2916.6         1.296         0.002         3000.0         1.304         0.002         3055.9         1.291         0.002         3164.9         1.295         0.002           2925.3         1.296         0.002         3001.9         1.305         0.002         3058.8         1.291         0.002         3164.9         1.295         0.002           2933.9         1.297         0.002         3003.9         1.305         0.002         3058.8         1.291         0.002         3178.0         1.295         0.002           2933.9         1.297         0.002         3005.8         1.291         0.002         3182.0         1.295         0.002												
2899.2         1.296         0.002         2996.1         1.302         0.002         3054.0         1.290         0.002         3151.9         1.295         0.002           2907.9         1.296         0.002         2998.1         1.302         0.002         3054.0         1.290         0.002         3151.9         1.295         0.002           2916.6         1.296         0.002         3000.0         1.304         0.002         3055.9         1.291         0.002         316.6         1.295         0.002           2920.9         1.296         0.002         3001.0         1.304         0.002         3055.9         1.291         0.002         3164.9         1.294         0.002           2925.3         1.296         0.002         3001.9         1.305         0.002         3058.8         1.291         0.002         3173.6         1.296         0.002         3002.9         1.305         0.002         3058.8         1.291         0.002         3173.6         1.296         0.002         3173.6         1.290         0.002         3173.6         1.296         0.002         2942.6         1.297         0.002         3005.8         1.310         0.004         3061.7         1.290         0.002												
2903.6   1.296   0.002   2997.1   1.303   0.002   3054.0   1.290   0.002   3151.9   1.294   0.000   2912.2   1.296   0.002   2999.1   1.304   0.002   3055.9   1.291   0.002   3156.3   1.294   0.000   2912.6   1.296   0.002   2000.0   1.304   0.002   3055.9   1.291   0.002   3164.9   1.294   0.002   2920.9   1.296   0.002   3001.0   1.304   0.002   3056.9   1.291   0.002   3164.9   1.295   0.002   2925.3   1.296   0.002   3001.9   1.305   0.002   3058.8   1.291   0.002   3173.6   1.295   0.000   2929.6   1.296   0.002   3002.9   1.305   0.002   3058.8   1.291   0.002   3173.6   1.295   0.000   2933.9   1.297   0.002   3003.9   1.306   0.002   3060.8   1.291   0.002   3173.6   1.295   0.000   29342.6   1.297   0.002   3005.8   1.310   0.004   3062.7   1.290   0.002   3182.3   1.295   0.002   2947.0   1.297   0.002   3005.8   1.311   0.004   3062.7   1.292   0.002   3195.3   1.295   0.000   2951.8   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3195.3   1.296   0.002   2952.7   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3195.3   1.296   0.002   2951.7   1.297   0.002   3006.8   1.311   0.004   3065.6   1.291   0.002   3195.3   1.296   0.002   2952.7   1.297   0.002   3006.8   1.313   0.008   3065.6   1.291   0.002   3195.3   1.296   0.002   2953.7   1.297   0.002   3016.6   1.313   0.015   3067.5   1.291   0.002   3204.0   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.5   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3214.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.015   3068.5   1.291   0.002   3214.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.017   3068.5   1.291   0.002   3234.4   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.017   3068.5   1.291   0.002   3217.0   1.295   0.002   2956.6   1.297   0.002   3015.4   1.305   0												
2907.79   1.296   0.002   2998.1   1.302   0.002   3055.0   1.290   0.002   3156.3   1.294   0.002   2916.6   1.296   0.002   2999.0   1.304   0.002   3055.9   1.291   0.002   3160.6   1.295   0.002   2920.9   1.296   0.002   3001.0   1.304   0.002   3055.9   1.291   0.002   3160.3   1.295   0.002   2925.3   1.296   0.002   3001.0   1.304   0.002   3057.9   1.291   0.002   3163.3   1.295   0.002   2925.3   1.296   0.002   3001.0   1.304   0.002   3057.9   1.291   0.002   3178.0   1.296   0.000   0.002   3002.9   1.305   0.002   3059.8   1.291   0.002   3178.0   1.295   0.002   2933.9   1.297   0.002   3003.9   3.060   0.002   3069.8   1.291   0.002   3178.0   1.295   0.002   2933.9   1.297   0.002   3005.8   1.301   0.004   3063.7   1.290   0.002   3186.6   1.295   0.000   2947.0   1.297   0.002   3006.8   1.311   0.004   3063.7   1.290   0.002   3186.6   1.295   0.000   2947.0   1.297   0.002   3006.8   1.311   0.004   3063.7   1.290   0.002   3191.0   1.294   0.002   2950.8   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3199.7   1.296   0.000   2951.8   1.297   0.002   3008.7   1.313   0.006   3064.6   1.291   0.002   3199.7   1.295   0.000   2952.7   1.297   0.002   3009.7   1.314   0.012   3066.6   1.291   0.002   3208.3   1.295   0.002   2953.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2953.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3014.5   1.305   0.027   3073.3   1.292   0.002   3214.1   1.295   0.002   2955.6   1.297   0.002   3014.5   1.305   0.027   3073.3   1.292   0.002   3214.1   1.295   0.002   2955.6   1.297   0.002   3014.5   1.305   0.027   3073.3   1.292   0.002   3234.1   1.295   0.002   2955.6   1.297   0.002   3014.5   1.305   0.027   3073.3   1.292   0.002   3234.1   1.295   0.002   2955.6   1.297   0.002   3014.5   1.305   0.027   3073.3   1.292   0.002   3234.1   1.295   0.002   2955.6   1.297   0.002   3014.5   1.305   0.027   3073.3   3												
1.291.2   1.296   0.002   2999.0   1.304   0.002   3055.9   1.291   0.002   3160.6   1.295   0.002   2920.9   1.296   0.002   3001.0   1.304   0.002   305.9   1.291   0.002   3160.6   1.295   0.002   2925.3   1.296   0.002   3001.9   1.305   0.002   3058.8   1.291   0.002   3173.6   1.295   0.000   2929.6   1.296   0.002   3001.9   1.305   0.002   3058.8   1.291   0.002   3173.6   1.295   0.000   2933.9   1.297   0.002   3003.9   1.306   0.002   3058.8   1.291   0.002   3173.6   1.295   0.000   2933.9   1.297   0.002   3003.9   1.306   0.002   3060.8   1.291   0.002   3182.3   1.295   0.000   2942.6   1.297   0.002   3005.8   1.301   0.004   3062.7   1.292   0.002   3182.3   1.295   0.000   2942.6   1.297   0.002   3005.8   1.311   0.004   3062.7   1.292   0.002   3191.0   1.294   0.002   2951.8   1.297   0.002   3007.7   1.312   0.006   3064.6   1.291   0.002   3195.3   1.296   0.000   2951.8   1.297   0.002   3007.7   1.314   0.012   3065.6   1.291   0.002   3304.0   1.295   0.002   2952.7   1.297   0.002   3006.8   1.311   0.004   3065.6   1.291   0.002   3304.0   1.295   0.002   2953.7   1.297   0.002   3001.6   1.313   0.015   3067.5   1.291   0.002   3317.0   1.295   0.002   2951.8   1.297   0.002   3011.6   1.313   0.017   3068.5   1.291   0.002   3321.7   1.295   0.002   2955.6   1.297   0.002   3011.5   1.312   0.021   3069.4   1.292   0.002   3321.7   1.295   0.002   2955.6   1.297   0.002   3011.5   1.310   0.023   3070.4   1.291   0.002   3321.7   1.295   0.002   2955.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3324.1   1.295   0.002   2955.6   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3324.1   1.295   0.002   2955.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3324.1   1.295   0.002   2965.3   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3324.1   1.295   0.002   2965.3   1.297   0.002   3015.4   1.305   0.027   3078.3   1.292   0.002   3324.1   1.295   0.002   2965.3   1.297   0.002   3015.4   1.305   0.												
2916.6   1.296   0.002   3000.0   1.304   0.002   3056.9   1.291   0.002   3164.9   1.294   0.002   2920.5   1.296   0.002   3001.0   1.304   0.002   3058.8   1.291   0.002   3178.0   1.295   0.002   2929.6   1.296   0.002   3001.9   1.305   0.002   3058.8   1.291   0.002   3178.0   1.295   0.000   2933.9   1.297   0.002   3003.9   1.305   0.002   3059.8   1.291   0.002   3178.0   1.295   0.000   2933.8   1.296   0.000   3004.8   1.308   0.002   3061.7   1.290   0.002   3186.6   1.295   0.000   2942.6   1.297   0.002   3005.8   1.310   0.004   3062.7   1.292   0.002   3186.6   1.295   0.000   2942.6   1.297   0.002   3005.8   1.310   0.004   3062.7   1.292   0.002   3195.3   1.294   0.002   2950.8   1.297   0.002   3008.8   1.311   0.004   3063.7   1.291   0.002   3199.7   1.296   0.002   2951.8   1.297   0.002   3008.7   1.313   0.006   3064.6   1.291   0.002   3199.7   1.295   0.002   2952.7   1.297   0.002   3008.7   1.314   0.012   3066.6   1.291   0.002   3208.3   1.295   0.002   2953.7   1.297   0.002   3016.6   1.313   0.015   3067.5   1.291   0.002   3217.0   1.295   0.002   2954.7   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3013.5   1.312   0.021   3069.4   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3013.5   1.312   0.021   3069.4   1.292   0.002   3217.0   1.295   0.002   2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3230.0   1.295   0.002   2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3233.0   1.295   0.002   2955.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3238.7   1.295   0.002   2956.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.291   0.002   3233.0   1.295   0.002   2956.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.291   0.002   3238.7   1.295   0.002   2956.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.291   0.002   3238.7   1.295   0.002   2956.5   1.297   0.002   3014.5   1.308   0.												
2920.9   1.296   0.002   3001.0   1.304   0.002   3057.9   1.291   0.002   3169.3   1.295   0.002   2929.6   1.296   0.002   3002.9   1.305   0.002   3058.8   1.291   0.002   3178.0   1.295   0.000   2933.9   1.297   0.002   3003.9   1.306   0.002   3060.8   1.291   0.002   3182.3   1.295   0.000   2933.9   1.297   0.002   3005.8   1.308   0.002   3061.7   1.290   0.002   3186.6   1.295   0.000   2942.6   1.297   0.002   3005.8   1.311   0.004   3062.7   1.292   0.002   3186.6   1.295   0.002   2947.0   1.297   0.002   3006.8   1.311   0.004   3062.7   1.292   0.002   3195.3   1.294   0.002   2951.8   1.297   0.002   3007.7   1.312   0.006   3064.6   1.291   0.002   3195.3   1.296   0.000   2951.8   1.297   0.002   3007.7   1.312   0.006   3064.6   1.291   0.002   3195.3   1.295   0.000   2951.8   1.297   0.002   3007.7   1.314   0.006   3064.6   1.291   0.002   3195.3   1.295   0.002   2952.7   1.297   0.002   3007.7   1.314   0.012   3066.6   1.291   0.002   3195.3   1.295   0.002   2953.7   1.297   0.002   3010.6   1.313   0.015   3067.5   1.291   0.002   3204.0   1.295   0.002   2954.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3015.5   1.312   0.021   3069.4   1.292   0.002   3214.4   1.295   0.002   2955.6   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2958.5   1.297   0.002   3016.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2958.5   1.297   0.002   3016.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2956.6   1.297   0.002   3016.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2956.6   1.297   0.002   3016.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2956.5   1.297   0.002   3016.4   1.305   0.												
2925.3   1.296   0.002   3001.9   1.305   0.002   3058.8   1.291   0.002   3173.6   1.296   0.000   2929.6   1.296   0.002   3003.9   1.306   0.002   3068.8   1.291   0.002   3182.3   1.295   0.000   2933.9   1.297   0.002   3003.9   1.306   0.002   3060.8   1.291   0.002   3182.3   1.295   0.000   2942.6   1.297   0.002   3004.8   1.308   0.004   3063.7   1.290   0.002   3186.6   1.295   0.000   2942.6   1.297   0.002   3006.8   1.311   0.004   3063.7   1.290   0.002   3195.3   1.296   0.002   2947.0   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3195.3   1.296   0.002   2950.8   1.297   0.002   3008.7   1.313   0.008   3065.6   1.291   0.002   3199.7   1.295   0.002   2951.8   1.297   0.002   3009.7   1.314   0.012   3066.6   1.291   0.002   3199.7   1.295   0.002   2953.7   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3212.7   1.295   0.002   2953.7   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3211.0   1.295   0.002   2955.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3221.4   1.295   0.002   2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3231.0   1.295   0.002   2959.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3234.1   1.295   0.002   2961.4   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3234.7   1.295   0.002   2966.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3234.7   1.295   0.002   2966.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3234.1   1.295   0.002   2966.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.002   3234.7   1.295   0.002   2966.5   1.297   0.002   3014.5   1.288   0.		1.296						1.291				
1.297   0.002   3002.9   1.305   0.002   3059.8   1.291   0.002   3178.0   1.295   0.000		1.296						1.291				
2933.9   1.297   0.002   3003.9   1.306   0.002   3060.8   1.291   0.002   3182.3   1.295   0.000   2942.6   1.297   0.002   3005.8   1.310   0.004   3062.7   1.292   0.002   3191.0   1.294   0.002   2947.0   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3191.0   1.294   0.002   2950.8   1.297   0.002   3007.7   1.312   0.006   3064.6   1.291   0.002   3195.3   1.296   0.002   2951.8   1.297   0.002   3008.7   1.313   0.008   3065.6   1.291   0.002   3204.0   1.295   0.002   2952.7   1.297   0.002   3009.7   1.314   0.012   3066.6   1.291   0.002   3204.0   1.295   0.002   2953.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2954.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.5   1.312   0.021   3069.4   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3011.5   1.310   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002   2955.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.000   3230.1   1.295   0.002   2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2960.5   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3233.7   1.295   0.002   2961.4   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2963.4   1.297   0.002   3017.4   1.299   0.031   3076.2   1.292   0.002   3247.4   1.295   0.002   2963.1   1.297   0.002   3012.3   1.288   0.029   3078.1   1.291   0.002   3251.7   1.295   0.002   2966.3   1.297   0.002   3022.3   1.281   0.021   3081.0   1.291   0.002   3260.4   1.295   0.002   2966.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.297   0.002   3022.2   1.281   0.017   3082.0   1.292   0.002   3260.4   1.295   0.002   2967.1   1.298   0.000   3023.2   1.281   0.017   3082.0   1.292   0.000   3277.4   1.295   0.002   2967.2   1.297   0.002   3032.1   1.280   0.												
\$\begin{array}{c c c c c c c c c c c c c c c c c c c												
2942.6   1.297   0.002   3005.8   1.310   0.004   3063.7   1.292   0.002   3191.0   1.294   0.002   2950.8   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3195.3   1.296   0.002   2951.8   1.297   0.002   3008.7   1.313   0.008   3065.6   1.291   0.002   3204.0   1.295   0.002   2952.7   1.297   0.002   3009.7   1.314   0.012   3066.6   1.291   0.002   3208.3   1.295   0.002   2953.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2954.7   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.5   1.312   0.021   3069.4   1.292   0.002   3221.4   1.295   0.002   2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.291   0.002   3234.4   1.295   0.002   2958.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3234.4   1.295   0.002   2956.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3234.4   1.295   0.002   2960.5   1.297   0.002   3017.4   1.299   0.031   3075.2   1.292   0.002   3247.4   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3012.3   1.288   0.029   3077.2   1.292   0.000   3247.4   1.295   0.002   2963.3   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.000   3247.4   1.295   0.002   2965.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3256.1   1.295   0.002   2965.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3264.4   1.295   0.002   2965.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3256.1   1.295   0.002   2965.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3264.4   1.295   0.002   2965.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3264.1   1.295   0.002   2965.3   1.297   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3273.4   1.295   0.002   2965.3   1.297   0.002   3025.1   1.281   0.												
2947.0   1.297   0.002   3006.8   1.311   0.004   3063.7   1.291   0.002   3195.3   1.296   0.002     2951.8   1.297   0.002   3007.7   1.312   0.006   3064.6   1.291   0.002   3204.0   1.295   0.002     2952.7   1.297   0.002   3008.7   1.314   0.012   3066.6   1.291   0.002   3204.0   1.295   0.002     2953.7   1.297   0.002   3010.6   1.313   0.015   3067.5   1.291   0.002   3217.0   1.295   0.002     2954.7   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3217.0   1.295   0.002     2955.6   1.297   0.002   3012.5   1.312   0.021   3069.4   1.292   0.002   3217.0   1.295   0.002     2955.6   1.297   0.002   3013.5   1.310   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002     2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.000   3225.7   1.295   0.002     2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3238.4   1.295   0.002     2959.5   1.297   0.002   3016.4   1.305   0.027   3073.3   1.292   0.002   3238.7   1.295   0.002     2960.5   1.297   0.002   3016.4   1.305   0.027   3073.3   1.292   0.002   3238.7   1.295   0.002     2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002     2962.4   1.297   0.002   3018.3   1.295   0.031   3076.2   1.292   0.000   3247.4   1.295   0.002     2963.4   1.297   0.002   3023.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002     2966.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002     2966.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3264.8   1.295   0.002     2966.3   1.296   0.002   3025.1   1.281   0.017   3080.0   1.292   0.000   3264.8   1.295   0.002     2966.3   1.296   0.002   3025.1   1.281   0.017   3080.0   1.292   0.000   3264.8   1.295   0.002     2966.3   1.296   0.002   3025.1   1.281   0.017   3080.0   1.292   0.000   3264.8   1.295   0.002     2966.3   1.296   0.002   3025.1   1.280   0.013   3080.0   1.292   0.000   3264.8   1.295   0.002     2966												
2950.8   1.297   0.002   3007.7   1.312   0.006   3064.6   1.291   0.002   3199.7   1.296   0.000												
2951.8   1.297   0.002   3008.7   1.313   0.008   3065.6   1.291   0.002   3204.0   1.295   0.002   2952.7   1.297   0.002   3009.7   1.314   0.012   3066.6   1.291   0.002   3212.7   1.295   0.002   2954.7   1.297   0.002   3011.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3012.5   1.312   0.021   3068.5   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3014.5   1.318   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002   2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.000   3230.0   1.295   0.002   2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3016.4   1.305   0.029   3073.3   1.292   0.002   3238.7   1.295   0.002   2960.5   1.297   0.002   3016.4   1.305   0.029   3073.3   1.292   0.002   3238.7   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3074.3   1.291   0.002   3231.7   1.295   0.002   2962.4   1.297   0.002   3018.3   1.295   0.031   3076.2   1.292   0.000   3247.4   1.295   0.002   2964.3   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2965.3   1.296   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2967.2   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2967.2   1.297   0.002   3024.1   1.280   0.013   3081.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2971.0   1.298   0.000   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2974.9   1.297   0.002   3038.6   1.280   0.013   3083.9   1.293   0.000   3373.4   1.295   0.002   2974.9   1.297   0.002   3038.6   1.280   0.												
2952.7   1.297   0.002   3009.7   1.314   0.012   3066.6   1.291   0.002   3208.3   1.295   0.002   2953.7   1.297   0.002   3010.6   1.313   0.015   3067.5   1.291   0.002   3212.7   1.295   0.002   2955.6   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3012.5   1.312   0.021   3069.4   1.292   0.002   3221.4   1.295   0.002   2957.6   1.297   0.002   3013.5   1.310   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002   2957.6   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.000   3230.0   1.295   0.002   2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3233.7   1.295   0.002   2960.5   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2963.4   1.297   0.002   3019.3   1.292   0.031   3076.2   1.292   0.002   3241.4   1.295   0.002   2963.4   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3256.1   1.295   0.002   2966.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.297   0.002   3021.2   1.285   0.025   3079.1   1.292   0.002   3260.4   1.295   0.002   2966.2   1.297   0.002   3025.1   1.281   0.017   3080.1   1.292   0.002   3261.4   1.295   0.002   2966.2   1.297   0.002   3025.1   1.280   0.019   3081.0   1.292   0.002   3261.1   1.295   0.002   2968.2   1.297   0.002   3025.1   1.280   0.019   3081.0   1.292   0.000   3273.4   1.295   0.002   2971.1   1.297   0.002   3028.0   1.280   0.013   3083.9   1.293   0.000   3277.8   1.295   0.002   2971.1   1.297   0.002   3028.0   1.280   0.013   3083.9   1.293   0.000   3365.5   1.295   0.002   2974.9   1.297   0.002   3038.5   1.280   0.001   3088.7   1.292   0.000   3368.5   1.295   0.002   2978.8   1.299   0.002   3036.7   1.286   0.												
\$\begin{array}{ c c c c c c c c c c c c c c c c c c c												
2954.7   1.297   0.002   3011.6   1.313   0.017   3068.5   1.292   0.002   3217.0   1.295   0.002   2955.6   1.297   0.002   3012.5   1.310   0.023   3069.4   1.292   0.002   3221.4   1.295   0.002   2957.6   1.297   0.002   3013.5   1.310   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002   2958.5   1.297   0.002   3015.4   1.308   0.025   3071.4   1.292   0.000   3230.0   1.295   0.002   2958.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3234.4   1.295   0.002   2960.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3234.7   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3019.3   1.292   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3251.7   1.295   0.002   2966.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.297   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2966.2   1.297   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2966.2   1.297   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2968.2   1.297   0.002   3025.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2969.1   1.296   0.002   3025.1   1.280   0.015   3083.0   1.292   0.000   3273.4   1.296   0.002   2971.1   1.298   0.000   3026.0   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2971.1   1.298   0.000   3028.0   1.280   0.015   3083.0   1.292   0.000   3386.5   1.295   0.002   2974.9   1.297   0.002   3028.0   1.280   0.003   3084.9   1.294   0.002   3395.1   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3092.6   1.293   0.000   3338.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.												
2955.6   1.297   0.002   3012.5   1.312   0.021   3069.4   1.292   0.002   3221.4   1.295   0.002   2956.6   1.297   0.002   3013.5   1.310   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002   2958.5   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.000   3230.0   1.295   0.002   2959.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3238.7   1.295   0.002   2960.5   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2962.4   1.297   0.002   3018.3   1.292   0.031   3076.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3264.8   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2966.3   1.296   0.002   3025.1   1.281   0.021   3080.1   1.292   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3025.1   1.281   0.017   3082.0   1.291   0.000   3273.4   1.296   0.002   2969.1   1.296   0.002   3025.0   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2970.1   1.298   0.000   3028.0   1.297   0.011   3084.9   1.293   0.000   3275.1   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.293   0.000   3285.5   1.295   0.002   2974.0   1.298   0.000   3028.0   1.279   0.011   3084.9   1.293   0.000   3365.5   1.295   0.002   2975.9   1.298   0.000   3038.8   1.283   0.005   3088.7   1.293   0.000   3316.8   1.296   0.002   2975.9   1.298   0.002   3035.7   1.286   0.003   3096.5   1.293   0.000   3334.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.												
2956.6   1.297   0.002   3013.5   1.310   0.023   3070.4   1.291   0.002   3225.7   1.295   0.002   2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.000   3230.0   1.295   0.002   2958.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3234.4   1.295   0.002   2960.5   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3238.7   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3251.7   1.295   0.002   2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2965.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2966.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3025.1   1.281   0.021   3082.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3285.1   1.295   0.002   2971.1   1.296   0.002   3028.9   1.280   0.015   3083.0   1.292   0.000   3285.1   1.295   0.002   2971.1   1.297   0.002   3028.9   1.280   0.015   3083.9   1.293   0.000   3286.5   1.295   0.002   2975.9   1.298   0.000   3028.9   1.281   0.007   3087.8   1.293   0.000   3328.5   1.295   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.293   0.000   3326.5   1.295   0.002   2975.9   1.298   0.002   3035.7   1.286   0.003   3090.7   1.293   0.000   3334.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.293   0.000   3336.5   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.293   0.000   3342.9   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.		1.297										
2957.6   1.297   0.002   3014.5   1.308   0.025   3071.4   1.292   0.000   3230.0   1.295   0.002   2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3017.4   1.299   0.031   3073.3   1.292   0.002   3238.7   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3074.3   1.291   0.002   3243.1   1.295   0.000   2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3251.7   1.295   0.002   2964.3   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2965.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.296   0.002   3022.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.295   0.002   2968.2   1.297   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.015   3083.0   1.292   0.000   3286.5   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3299.8   1.295   0.002   2975.9   1.298   0.000   3029.9   1.281   0.007   3087.8   1.293   0.000   3328.5   1.295   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.299   0.000   3338.5   1.283   0.005   3089.7   1.299   0.000   3336.2   1.295   0.002   2975.9   1.298   0.000   3033.8   1.283   0.005   3089.7   1.299   0.000   3336.7   1.286   0.003   3090.6   1.292   0.000   3342.2   1.295   0.002   2975.9   1.298   0.002   3035.7   1.286   0.003   3090.6   1.293   0.000   3342.2   1.295   0.002   2975.8   1.299   0.002   3035.7   1.286   0.003   3090.6   1.293   0.000   3342.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.												
2958.5   1.297   0.002   3015.4   1.305   0.027   3072.3   1.292   0.002   3234.4   1.295   0.002   2959.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3238.7   1.295   0.002   2960.5   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2962.4   1.297   0.002   3019.3   1.292   0.031   3076.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2965.3   1.297   0.002   3022.2   1.282   0.025   3079.1   1.292   0.002   3264.8   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3269.1   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.015   3083.0   1.292   0.000   3286.5   1.295   0.002   2971.1   1.297   0.002   3028.9   1.280   0.013   3083.9   1.293   0.000   3286.5   1.295   0.002   2974.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.000   3039.9   1.281   0.007   3087.8   1.293   0.000   3316.8   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3089.7   1.292   0.000   3334.2   1.296   0.002   2978.8   1.299   0.000   3035.7   1.286   0.003   3099.7   1.292   0.000   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3099.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3099.7   1.293   0.000   3336.3   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3099.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.												
2959.5   1.297   0.002   3016.4   1.303   0.029   3073.3   1.292   0.002   3238.7   1.295   0.002   2961.4   1.297   0.002   3017.4   1.299   0.031   3074.3   1.291   0.002   3243.1   1.295   0.002   2962.4   1.297   0.002   3019.3   1.292   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2964.3   1.297   0.002   3022.2   1.285   0.027   3078.1   1.291   0.002   3264.8   1.295   0.002   2965.3   1.297   0.002   3022.2   1.282   0.025   3079.1   1.292   0.002   3264.8   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3026.1   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2971.1   1.298   0.000   3028.9   1.280   0.013   3083.9   1.293   0.000   3286.5   1.295   0.002   2971.0   1.297   0.002   3028.9   1.280   0.013   3083.9   1.293   0.000   3286.5   1.295   0.002   2974.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.000   3032.8   1.281   0.007   3087.8   1.293   0.000   338.2   1.296   0.002   2974.9   1.298   0.000   3032.8   1.281   0.007   3087.8   1.293   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.281   0.007   3087.8   1.292   0.000   3316.8   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.000   3316.8   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.002   3334.2   1.295   0.002   2988.6   1.298   0.002   3036.6   1.287   0.0		1.297										
2960.5		1.297										
2961.4   1.297   0.002   3018.3   1.295   0.031   3075.2   1.292   0.000   3247.4   1.295   0.002   2962.4   1.297   0.002   3019.3   1.292   0.031   3076.2   1.292   0.002   3251.7   1.295   0.002   2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3277.8   1.295   0.002   2968.2   1.297   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.013   3083.0   1.292   0.000   3286.5   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3299.1   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.293   0.002   3299.1   1.296   0.002   2974.0   1.298   0.000   3039.9   1.281   0.007   3086.8   1.292   0.000   3308.2   1.296   0.002   2974.0   1.298   0.000   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.293   0.000   3334.2   1.296   0.002   2978.8   1.299   0.000   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.295   0.002   2985.6   1.299   0.002   3036.7   1.286   0.												
1.296												
2963.4   1.297   0.002   3020.3   1.288   0.029   3077.2   1.292   0.002   3256.1   1.295   0.002   2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2965.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3269.1   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3269.1   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.013   3083.9   1.293   0.000   3286.5   1.295   0.002   2972.0   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.000   3299.5   1.296   0.002   2974.0   1.298   0.000   3039.9   1.281   0.007   3086.8   1.292   0.000   3308.2   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3086.8   1.292   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.296   0.002   2975.9   1.298   0.000   3031.8   1.283   0.005   3089.7   1.293   0.000   3324.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3091.6   1.293   0.000   3334.2   1.296   0.002   2978.8   1.299   0.002   3034.7   1.285   0.003   3091.6   1.293   0.000   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3093.6   1.293   0.000   3334.2   1.296   0.002   2980.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3342.9   1.295   0.002   2980.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3334.2   1.296   0.002   2981.7   1.298   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3342.9   1.295   0.002   2980.7   1.299   0.002   3036.6   1.287   0.												
2964.3   1.297   0.002   3021.2   1.285   0.027   3078.1   1.291   0.002   3260.4   1.295   0.002   2965.3   1.296   0.002   3022.2   1.281   0.021   3080.1   1.292   0.002   3264.8   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2969.1   1.296   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3277.8   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.013   3083.9   1.293   0.000   3282.1   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.293   0.002   3299.5   1.296   0.002   2974.0   1.298   0.000   3030.9   1.281   0.007   3086.8   1.292   0.000   3308.2   1.296   0.002   2974.0   1.298   0.000   3031.8   1.283   0.005   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2977.8   1.298   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3334.2   1.296   0.002   2977.8   1.299   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3334.2   1.296   0.002   2977.8   1.299   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.299   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3034.7   1.285   0.003   3091.6   1.293   0.000   3342.9   1.295   0.002   2981.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3342.9   1.295   0.002   2981.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3342.9   1.295   0.002   2981.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3342.9   1.295   0.002   2981.7   1.299   0.002   3036.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.296   0.002   2981.7   1.298   0.002   3039.6   1.287   0.												
296.3   1.297   0.002   3022.2   1.282   0.025   3079.1   1.292   0.002   3264.8   1.295   0.002   2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3269.1   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2969.1   1.296   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.013   3083.0   1.292   0.000   3282.1   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2972.0   1.297   0.002   3028.9   1.280   0.009   3085.8   1.293   0.002   3295.1   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2977.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3090.7   1.294   0.002   3334.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.000   3351.6   1.296   0.002   2981.7   1.298   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3356.3   1.295   0.002   2981.7   1.298   0.002   3036.7   1.286   0.003   3093.6   1.293   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3036.6   1.287   0.004   3095.5   1.294   0.002   3366.3   1.295   0.002   2981.7   1.298   0.002   3036.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.296   0.002   2981.7   1.298   0.002   3036.6   1.287   0.004   3094.5   1.293   0.002   3386.3   1.296   0.002   2981.7   1.298   0.002   3036.6   1.287   0.0												
2966.3   1.296   0.002   3023.2   1.281   0.021   3080.1   1.292   0.002   3269.1   1.295   0.002   2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3273.4   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.295   0.002   2972.0   1.297   0.002   3028.9   1.280   0.009   3085.8   1.293   0.000   3295.1   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.002   3334.2   1.295   0.002   2988.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.292   0.000   3351.6   1.296   0.002   2981.7   1.298   0.002   3036.7   1.286   0.003   3093.6   1.292   0.000   3351.6   1.296   0.002   2981.7   1.298   0.002   3036.7   1.286   0.003   3093.6   1.292   0.000   3356.3   1.295   0.002   2981.7   1.298   0.002   3036.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.296   0.002   2981.7   1.298   0.002   3036.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.296   0.002   2981.7   1.298   0.002   3036.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.												
2967.2   1.297   0.000   3024.1   1.280   0.019   3081.0   1.291   0.000   3273.4   1.296   0.002   2968.2   1.297   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2970.1   1.298   0.000   3026.0   1.280   0.013   3083.0   1.292   0.000   3286.5   1.295   0.002   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2972.0   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3295.1   1.295   0.002   2974.0   1.298   0.002   3039.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3316.8   1.296   0.002   2975.9   1.299   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3334.2   1.296   0.002   2977.8   1.299   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3091.6   1.293   0.000   3334.2   1.296   0.002   2978.8   1.299   0.002   3034.7   1.285   0.003   3093.6   1.293   0.000   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3093.6   1.293   0.000   3351.6   1.296   0.002   2980.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3351.6   1.295   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.295   0.002   2982.6   1.298   0.000   3040.5   1.287   0.004   3094.5   1.293   0.002   33395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0												
2968.2   1.297   0.002   3025.1   1.281   0.017   3082.0   1.292   0.000   3277.8   1.295   0.002   2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.013   3083.9   1.293   0.000   3282.1   1.295   0.000   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2972.0   1.297   0.002   3028.9   1.280   0.009   3085.8   1.293   0.002   3299.8   1.296   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.293   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2976.9   1.299   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.000   3342.9   1.295   0.002   2979.8   1.299   0.002   3035.7   1.286   0.003   3094.5   1.294   0.002   3336.2   1.295   0.002   2980.7   1.299   0.002   3036.7   1.286   0.003   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3336.3   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3336.3   1.296   0.002   2981.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3335.0   1.296   0.002   2981.6   1.298   0.000   3040.5   1.287   0.004   3098.4   1.293   0.002   3335.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.												
2969.1   1.296   0.002   3026.0   1.280   0.015   3083.0   1.292   0.000   3282.1   1.295   0.002   2970.1   1.298   0.000   3027.0   1.280   0.013   3083.9   1.293   0.000   3286.5   1.295   0.000   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2972.0   1.297   0.002   3028.0   1.280   0.009   3085.8   1.293   0.002   3295.1   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3295.1   1.295   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.293   0.000   3308.2   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3088.7   1.292   0.000   3325.5   1.295   0.002   2976.9   1.299   0.000   3033.8   1.283   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3091.6   1.293   0.002   3334.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.000   3351.6   1.295   0.002   2980.7   1.299   0.002   3035.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.6   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3336.3   1.296   0.002   2981.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3335.0   1.296   0.002   2981.6   1.298   0.000   3040.5   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002												
1.297   1.298   0.000   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.295   0.000   2971.1   1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.295   0.002   2972.0   1.297   0.002   3028.9   1.280   0.009   3085.8   1.293   0.002   3290.1   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.292   0.000   3316.8   1.295   0.002   2976.9   1.299   0.000   3033.8   1.283   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.002   3342.9   1.295   0.002   2988.8   1.299   0.002   3035.7   1.286   0.003   3093.6   1.292   0.000   3351.6   1.296   0.002   2980.7   1.299   0.002   3035.7   1.286   0.003   3094.5   1.294   0.002   3368.9   1.296   0.002   2981.7   1.298   0.002   3036.7   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2981.7   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002   3035.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002   3095.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.0												
1.297   0.002   3028.0   1.279   0.011   3084.9   1.294   0.002   3290.8   1.296   0.002   2972.0   1.297   0.002   3028.9   1.280   0.009   3085.8   1.293   0.002   3295.1   1.295   0.002   2974.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.000   3398.2   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3088.7   1.293   0.000   3316.8   1.296   0.002   2976.9   1.299   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3034.7   1.285   0.003   3091.6   1.293   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3092.6   1.293   0.000   3351.6   1.295   0.002   2980.7   1.299   0.002   3037.6   1.287   0.004   3094.5   1.294   0.002   3336.9   1.295   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2983.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3395.0   1.296   0.002   2984.6   1.300   0.000   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002												
2972.0   1.297   0.002   3028.9   1.280   0.009   3085.8   1.293   0.002   3295.1   1.295   0.002   2973.0   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.299   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2976.9   1.299   0.000   3033.8   1.283   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3091.6   1.293   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3034.7   1.286   0.003   3092.6   1.292   0.000   3351.6   1.296   0.000   2979.8   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3351.6   1.295   0.002   2980.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3360.2   1.295   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.000   3040.5   1.287   0.004   3095.5   1.294   0.002   3386.3   1.296   0.002   2982.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3395.0   1.296   0.002   2984.6   1.300   0.000   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3035.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3095.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.												
1.297   1.298   0.000   3029.9   1.281   0.007   3086.8   1.292   0.002   3299.5   1.296   0.002   2974.0   1.298   0.002   3030.9   1.281   0.007   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2976.9   1.299   0.000   3033.8   1.283   0.005   3089.7   1.293   0.000   3325.5   1.295   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.002   3334.2   1.295   0.002   2979.8   1.299   0.002   3035.7   1.286   0.003   3093.6   1.292   0.000   3351.6   1.295   0.002   2980.7   1.299   0.002   3035.6   1.287   0.004   3094.5   1.294   0.002   3368.9   1.296   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.002   30394.5   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3395.0   1.296   0.002   2984.6   1.300   0.000   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002												
1.297   0.002   3030.9   1.281   0.007   3087.8   1.293   0.000   3308.2   1.296   0.002   2974.9   1.297   0.002   3031.8   1.283   0.005   3088.7   1.292   0.000   3316.8   1.296   0.002   2975.9   1.298   0.000   3032.8   1.283   0.005   3089.7   1.292   0.000   3325.5   1.295   0.002   2976.9   1.299   0.000   3033.8   1.283   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3091.6   1.293   0.002   3342.9   1.295   0.002   2979.8   1.299   0.002   3035.7   1.286   0.003   3093.6   1.292   0.000   3351.6   1.296   0.000   2980.7   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3360.2   1.295   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3094.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2983.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3395.0   1.296   0.002   2984.6   1.300   0.000   3042.4   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002												
2974.9         1.297         0.002         3031.8         1.283         0.005         3088.7         1.292         0.000         3316.8         1.296         0.002           2975.9         1.298         0.000         3032.8         1.283         0.005         3089.7         1.293         0.000         3325.5         1.295         0.002           2976.9         1.299         0.000         3033.8         1.283         0.003         3090.7         1.294         0.002         3334.2         1.296         0.002           2977.8         1.298         0.002         3034.7         1.285         0.003         3091.6         1.293         0.002         3342.9         1.295         0.002           2978.8         1.299         0.002         3035.7         1.286         0.003         3092.6         1.292         0.000         3351.6         1.296         0.000           2979.8         1.299         0.002         3037.6         1.287         0.004         3094.5         1.293         0.000         3360.2         1.295         0.002           2980.7         1.299         0.002         3038.6         1.287         0.004         3095.5         1.294         0.002         3377.6												
2975.9         1.298         0.000         3032.8         1.283         0.005         3089.7         1.293         0.000         3325.5         1.295         0.002           2976.9         1.299         0.000         3033.8         1.283         0.003         3090.7         1.294         0.002         3334.2         1.296         0.002           2978.8         1.299         0.002         3035.7         1.286         0.003         3092.6         1.293         0.002         3342.9         1.295         0.002           2979.8         1.299         0.002         3036.7         1.286         0.003         3093.6         1.293         0.000         3351.6         1.295         0.002           2980.7         1.299         0.002         3037.6         1.287         0.004         3094.5         1.293         0.000         3360.2         1.295         0.002           2981.7         1.299         0.002         3037.6         1.287         0.004         3094.5         1.294         0.002         3368.9         1.296         0.002           2981.7         1.298         0.002         3038.6         1.287         0.004         3095.5         1.294         0.002         3377.6												
1.2976.9   1.299   0.000   3033.8   1.283   0.003   3090.7   1.294   0.002   3334.2   1.296   0.002   2977.8   1.298   0.002   3034.7   1.285   0.003   3091.6   1.293   0.002   3334.2   1.295   0.002   2978.8   1.299   0.002   3035.7   1.286   0.003   3092.6   1.292   0.000   3351.6   1.295   0.002   2979.8   1.299   0.002   3036.7   1.286   0.003   3093.6   1.293   0.000   3351.6   1.296   0.000   2980.7   1.299   0.002   3037.6   1.287   0.004   3094.5   1.294   0.002   3369.2   1.295   0.002   2981.7   1.298   0.002   3038.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.002   2982.6   1.298   0.002   3039.6   1.287   0.004   3095.5   1.294   0.002   3377.6   1.295   0.000   2982.6   1.298   0.000   3040.5   1.287   0.004   3097.4   1.293   0.002   3395.0   1.296   0.002   2984.6   1.300   0.000   3041.5   1.287   0.004   3098.4   1.293   0.002   3395.0   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3098.4   1.293   0.002   3095.5   1.296   0.002   2985.5   1.299   0.002   3042.4   1.287   0.004   3099.3   1.292   0.002												
2977.8         1.298         0.002         3034.7         1.285         0.003         3091.6         1.293         0.002         3342.9         1.295         0.002           2978.8         1.299         0.002         3035.7         1.286         0.003         3092.6         1.292         0.000         3351.6         1.295         0.002           2979.8         1.299         0.002         3036.7         1.286         0.003         3093.6         1.292         0.000         3360.2         1.295         0.002           2980.7         1.299         0.002         3037.6         1.287         0.004         3094.5         1.294         0.002         3368.9         1.296         0.002           2981.7         1.298         0.002         3039.6         1.287         0.004         3095.5         1.294         0.002         3377.6         1.295         0.000           2983.6         1.298         0.000         3040.5         1.287         0.004         3097.4         1.293         0.002         3386.3         1.296         0.002           2984.6         1.300         0.000         3041.5         1.287         0.004         3097.4         1.293         0.002         3395.0												
2978.8         1.299         0.002         3035.7         1.286         0.003         3092.6         1.292         0.000         3351.6         1.296         0.000           2979.8         1.299         0.002         3036.7         1.286         0.003         3093.6         1.293         0.000         3360.2         1.295         0.002           2980.7         1.299         0.002         3037.6         1.287         0.004         3094.5         1.294         0.002         3368.9         1.296         0.002           2981.7         1.298         0.002         3038.6         1.287         0.004         3095.5         1.294         0.002         3377.6         1.295         0.000           2982.6         1.298         0.002         3039.6         1.287         0.004         3096.5         1.294         0.002         3386.3         1.296         0.002           2983.6         1.298         0.000         3040.5         1.287         0.004         3097.4         1.293         0.002         3395.0         1.296         0.002           2984.6         1.300         0.000         3041.5         1.287         0.004         3098.4         1.293         0.002         3395.0												
2979.8       1.299       0.002       3036.7       1.286       0.003       3093.6       1.293       0.000       3360.2       1.295       0.002         2980.7       1.299       0.002       3037.6       1.287       0.004       3094.5       1.294       0.002       3368.9       1.296       0.002         2981.7       1.298       0.002       3038.6       1.287       0.004       3095.5       1.294       0.002       3377.6       1.295       0.000         2982.6       1.298       0.002       3039.6       1.287       0.004       3096.5       1.293       0.002       3386.3       1.296       0.002         2983.6       1.298       0.000       3040.5       1.287       0.004       3097.4       1.293       0.002       3395.0       1.296       0.002         2984.6       1.300       0.000       3041.5       1.287       0.004       3098.4       1.293       0.002         2985.5       1.299       0.002       3042.4       1.287       0.004       3099.3       1.292       0.002										3351.6	1.296	
2980.7       1.299       0.002       3037.6       1.287       0.004       3094.5       1.294       0.002       3368.9       1.296       0.002         2981.7       1.298       0.002       3038.6       1.287       0.004       3095.5       1.294       0.002       3377.6       1.295       0.000         2982.6       1.298       0.002       3039.6       1.287       0.004       3096.5       1.293       0.002       3386.3       1.296       0.002         2983.6       1.298       0.000       3040.5       1.287       0.004       3097.4       1.293       0.002       3395.0       1.296       0.002         2984.6       1.300       0.000       3041.5       1.287       0.004       3098.4       1.293       0.002         2985.5       1.299       0.002       3042.4       1.287       0.004       3099.3       1.292       0.002								1.293		3360.2		
2981.7     1.298     0.002     3038.6     1.287     0.004     3095.5     1.294     0.002     3377.6     1.295     0.000       2982.6     1.298     0.002     3039.6     1.287     0.004     3096.5     1.293     0.002     3386.3     1.296     0.002       2983.6     1.298     0.000     3040.5     1.287     0.004     3097.4     1.293     0.002     3395.0     1.296     0.002       2984.6     1.300     0.000     3041.5     1.287     0.004     3098.4     1.293     0.002       2985.5     1.299     0.002     3042.4     1.287     0.004     3099.3     1.292     0.002										3368.9	1.296	
2982.6       1.298       0.002       3039.6       1.287       0.004       3096.5       1.293       0.002       3386.3       1.296       0.002         2983.6       1.298       0.000       3040.5       1.287       0.004       3097.4       1.293       0.002       3395.0       1.296       0.002         2984.6       1.300       0.000       3041.5       1.287       0.004       3098.4       1.293       0.002         2985.5       1.299       0.002       3042.4       1.287       0.004       3099.3       1.292       0.002												
2983.6       1.298       0.000       3040.5       1.287       0.004       3097.4       1.293       0.002       3395.0       1.296       0.002         2984.6       1.300       0.000       3041.5       1.287       0.004       3098.4       1.293       0.002         2985.5       1.299       0.002       3042.4       1.287       0.004       3099.3       1.292       0.002												
2984.6     1.300     0.000     3041.5     1.287     0.004     3098.4     1.293     0.002       2985.5     1.299     0.002     3042.4     1.287     0.004     3099.3     1.292     0.002												
2985.5 1.299 0.002 3042.4 1.287 0.004 3099.3 1.292 0.002								1.293			_	_
[ 2986.5 1.299 0.002 [ 3043.4 1.287 0.002 ] 3104.2 1.293 0.000 [	2986.5	1.299	0.002	3043.4	1.287	0.002	3104.2	1.293	0.000			

TABLE 9B CO:CH₄ = 20:1 AT 15 K

×	000000000000000000000000000000000000000
E	1288 1288 1288 1290 1290 1290 1291 1293 1293 1293 1293 1293 1293 1293
v (cm ⁻¹ )	24571.5 2466.2 2444.8 2580.9 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 25182.0 2
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L L	0.888 1.003 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033 1.033
v (cm ⁻¹ )	2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 2155.8 21
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v (cm ⁻¹ )	1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 1007.9 10

TABLE 9B—Continued

v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2860.2	1.295	0.002	2987.5	1.299	0.002	3044.4	1.287	0.002	3108.5	1.293	0.002
2864.5	1.295	0.002	2988.4	1.300	0.000	3045.3	1.288	0.004	3112.9	1.294	0.002
2868.8	1.294	0.000	2989.4	1.301	0.002	3046.3	1.288	0.002	3117.2	1.293	0.000
2873.2	1.294	0.000	2990.4	1.300	0.002	3047.3	1.289	0.002	3121.5	1.293	0.002
2877.5	1.295	0.000	2991.3	1.300	0.002	3048.2	1.289	0.002	3125.9	1.295	0.000
2881.9	1.295	0.002	2992.3	1.300	0.000	3049.2	1.290	0.002	3130.2	1.293	0.000
2886.2	1.297	0.000	2993.3	1.301	0.000	3050.2	1.290	0.002	3134.6	1.295	0.002
2890.5	1.297	0.000	2994.2	1.302	0.002	3051.1	1.290	0.002	3138.9	1.294	0.002
2894.9	1.296	0.000	2995.2	1.303	0.002	3052.1	1.290	0.002	3143.2	1.294	0.002
2899.2	1.296	0.002	2996.1	1.302	0.002	3053.1	1.290	0.002	3147.6	1.293	0.002
2903.6	1.296	0.002	2997.1	1.303	0.002	3054.0	1.290	0.002	3151.9	1.295	0.000
2907.9	1.296	0.002	2998.1	1.303	0.002	3055.0	1.291	0.002	3156.3	1.294	0.000
2912.2	1.296	0.002	2999.0	1.303	0.002	3055.9	1.291	0.002	3160.6	1.295	0.000
2916.6	1.296	0.002	3000.0	1.304	0.002	3056.9	1.291	0.002	3164.9	1.295	0.000
2920.9	1.295	0.002	3001.0	1.304	0.002	3057.9	1.291	0.002	3169.3	1.295	0.002
2925.3	1.295	0.002	3001.9	1.305	0.002	3058.8	1.291	0.002	3173.6	1.294	0.000
2929.6	1.295	0.000	3002.9	1.306	0.002	3059.8	1.291	0.002	3178.0	1.295	0.000
2933.9	1.297	0.000	3003.9	1.307	0.002	3060.8	1.291	0.002	3182.3	1.295	0.002
2938.3	1.296	0.000	3004.8	1.308	0.004	3061.7	1.291	0.002	3186.6	1.296	0.000
2942.6	1.297	0.002	3005.8	1.309	0.004	3062.7	1.291	0.000	3191.0	1.295	0.002
2947.0	1.297	0.000	3006.8	1.311	0.006	3063.7	1.292	0.002	3195.3	1.294	0.002
2950.8	1.297	0.002	3007.7	1.311	0.008	3064.6	1.291 1.291	0.002	3199.7	1.295 1.295	0.000
2951.8	1.297	0.002	3008.7	1.312	0.010	3065.6		0.002	3204.0	1.295	0.002
2952.7	1.297	0.002	3009.7	1.313	0.012	3066.6	1.291	0.002 0.002	3208.3	1.295	0.000
2953.7 2954.7	1.296 1.296	0.002 0.002	3010.6 3011.6	1.313 1.312	0.016 0.017	3067.5 3068.5	1.291 1.292	0.002	3212.7 3217.0	1.295	0.002
2954.7	1.296	0.002	3011.6	1.312	0.017	3069.4	1.292	0.002	3217.0	1.295	0.000
2955.6	1.290	0.002	3012.5	1.309	0.021	3070.4	1.292	0.002	3225.7	1.296	0.002
2957.6	1.297	0.002	3013.5	1.306	0.025	3071.4	1.292	0.002	3230.0	1.295	0.002
2958.5	1.296	0.002	3015.4	1.304	0.023	3072.3	1.292	0.002	3234.4	1.295	0.002
2959.5	1.297	0.002	3016.4	1.300	0.029	3073.3	1.292	0.002	3238.7	1.295	0.000
2960.5	1.297	0.002	3017.4	1.297	0.029	3074.3	1.291	0.002	3243.1	1.295	0.000
2961.4	1.297	0.002	3018.3	1.294	0.029	3075.2	1.292	0.002	3247.4	1.296	0.000
2962.4	1.297	0.000	3019.3	1.290	0.027	3076.2	1.293	0.000	3251.7	1.295	0.000
2963.4	1.297	0.002	3020.3	1.288	0.027	3077.2	1.293	0.002	3256.1	1.294	0.002
2964.3	1.298	0.002	3021.2	1.285	0.025	3078.1	1.292	0.002	3260.4	1.296	0.002
2965.3	1.297	0.002	3022.2	1.284	0.023	3079.1	1.292	0.002	3264.8	1.296	0.000
2966.3	1.298	0.002	3023.2	1.282	0.019	3080.1	1.291	0.002	3269.1	1.296	0.000
2967.2	1.299	0.002	3024.1	1.283	0.017	3081.0	1.292	0.000	3273.4	1.296	0.002
2968.2	1.298	0.002	3025.1	1.282	0.015	3082.0	1.293	0.000	3277.8	1.296	0.000
2969.1	1.297	0.002	3026.0	1.282	0.013	3083.0	1.293	0.002	3282.1	1.296	0.000
2970.1	1.297	0.000	3027.0	1.282	0.013	3083.9	1.292	0.000	3286.5	1.296	0.000
2971.1	1.297	0.000	3028.0	1.282	0.011	3084.9	1.294	0.002	3290.8	1.296	0.002
2972.0	1.298	0.000	3028.9	1.282	0.009	3085.8	1.293	0.002	3295.1	1.296	0.002
2973.0	1.298	0.000	3029.9	1.282	0.009	3086.8	1.292	0.002	3299.5	1.296	0.000
2974.0	1.299	0.000	3030.9	1.282	0.007	3087.8	1.292	0.000	3308.2	1.296	0.000
2974.9	1.299	0.002	3031.8	1.284	0.005	3088.7	1.292	0.000	3316.8	1.296	0.002
2975.9	1.298	0.002	3032.8	1.285	0.005	3089.7	1.294	0.000	3325.5	1.296	0.000
2976.9	1.299	0.000	3033.8	1.285	0.005	3090.7	1.294	0.002	3334.2	1.296	0.000
2977.8	1.298	0.002	3034.7	1.285	0.005	3091.6	1.293	0.002	3342.9	1.296	0.000
2978.8	1.299	0.000	3035.7	1.286	0.004	3092.6	1.292	0.002	3351.6	1.297	0.000
2979.8	1.300	0.002	3036.7	1.286	0.004	3093.6	1.293	0.002	3360.2	1.296	0.000
2980.7	1.299	0.000	3037.6	1.287	0.004	3094.5	1.294	0.000	3368.9	1.297	0.002
2981.7	1.299	0.000	3038.6	1.287	0.004	3095.5	1.294	0.002	3377.6	1.297	0.000
2982.6	1.300	0.002	3039.6	1.288	0.004	3096.5	1.293	0.002	3386.3	1.296	0.002
2983.6	1.299	0.002	3040.5	1.288	0.004	3097.4	1.293	0.002	3395.0	1.296	0.002
2984.6	1.299	0.000	3041.5	1.288	0.004	3098.4	1.294	0.002	I		
2985.5	1.300	0.002	3042.4	1.288	0.004	3099.3	1.293	0.002	Į.		
2986.5	1.299	0.002	3043.4	1.288	0.004	3104.2	1.293	0.002			

11-	22222	2222	2222	1222	222	222	222	222	222	222	222	2 2 2	888	122	222	22	222	222	222	222
*		0.002	8888	3000	000	90.0	0.002		000	0000	000	0.00	0.002	000	000	00	900	0.00	300	000
=	1.287 1.289 1.289 1.290 1.289	1290 1290 1290 1290	1.291	1.292	1.292 1.292 1.294	1.294 1.293 1.293	1.292 1.293 1.294	1.293	1.293	1.293	1.295	1.296	1.294	1.296	1.295 1.295 1.296	1.295	1.296 1.296 1.295	1.295	1.295	1.295 1.295 1.295
v (cm ⁻¹ )	2457.5 2466.2 2474.8 2483.5 2492.2	2500.9 2509.6 2518.2 2526.9	2535.6 2544.3 2553.0	2570.3 2579.0 2587.7	2596.4 2605.1 2613.7	2622.4 2631.1 2639.8	2648.5 2657.1 2665.8	2674.5	2700.5 2709.2	2717.9 2726.6 2735.3	2751.7	2760.3 2764.7	2769.0 2773.4 7777.	2782.0 2786.4	2790.7 2795.1 2799.4	2803.7	2812.4 2816.8 2821.1	2825.4 2829.8	2838.5 2842.8	2847.1 2851.5 2855.8
×	0.035 0.024 0.020 0.015 0.016	0.014 0.014 0.015 0.018	0.015	0.018	0.021	0.021 0.018 0.018	0.018	0.015	0.010	0.007	0.007	0.004	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.000
"	0.892 1.005 1.067 1.109 1.139	1.161 1.179 1.193 1.202	1.211	1.233 1.233 1.237	1.240 1.242 1.243	1.243 1.244 1.246	1.247 1.247 1.248	1.249	1.252	1.254 1.257 1.258	1.260	1.265 1.265 1.267	1.269	1.275	1.278 1.279 1.280	1.281	1.282 1.283 1.283	1.284	1.286 1.286 1.286	1.287 1.287 1.288
v (cm ⁻¹ )	2147.9 2150.8 2153.7 2156.6 2159.5	2162.4 2165.3 2168.1 2171.0	2173.9 2176.8 2179.7	2185.5 2188.4 2191.3	2194.2 2197.1 2200.0	2202.9 2205.8 2208.7	2211.5 2214.4 2217.3	2220.2 2223.1	2228.9 2231.8	2234.7 2237.6 2240.5	2246.3	2257.8 2266.5	2275.2 2283.9	2301.2	2318.6 2327.3 2336.0	2344.6	2362.0 2370.7 2379.4	2388.0 2396.7	2414.1 2422.8	2431.4 2440.1 2448.8
<u></u>	0.003	0.003	0.003	00.003	0.003	0.003	0.00	4 4 5	4 4 4	4 4 8	20.00	20.00	0.007	20.00	2000	90.0	0.00 4 4 60 6003	0.000	0.000	2.268 1.019 0.059
	22442	1.316 1.316 1.316 1.317	1317	1,321 1,323 1,323	1323 1324 1325	1.326 1.328 1.331	1.332 1.335 1.337	1.340	1.345 1.346 1.347	1.349 1.350 1.353	1.355	1.363 1.363 1.369	1.376	1.369	1.387 1.395 1.405	1.414	1.442 1.461 1.486	1.523	1.6/1 1.875 2.447	1.521 0.366 0.605
v (cm ⁻¹ )	1829.6 1838.3 1847.0 1855.7 1864.3	1873.0 1881.7 1890.4 1899.1	1907.7 1916.4 1925.1	1955.6 1942.5 1951.1	1968.5 1977.2 1985.9	1994.5 2003.2 2011.9	2020.6 2029.3 2037.9	2046.6	2058.2 2058.2 2061.1	2064.0 2066.9 2069.8	2072.7	2081.3 2084.2	2087.1 2090.0	2095.8 2098.7	2101.6 2104.5 2107.4	2110.3	2116.1 2119.0 2121.9	2124.7	2133.4 2136.3	2139.2 2142.1 2145.0
×	4 4 4 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0.00 0.00 4.000 0.000	4 4 4 8	00000	0000 4000 0000	0.000	0.00 4.00 4.00 4.00	400.0	0000	0.000	00.00	2000	2000 2000 2000 2000 2000 2000 2000 200	4000	888	4 4 5	0000	400.0	4 900	0003
ء	1305 1305 1306 1306 1306			308			1.307		0 ~ ~ !	308	308		308		309		311	1.310	1.313	1.312 (1.312 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.313 (1.3
v (cm ⁻¹ )	1408.6 1413.0 1417.3 1421.6 1426.0	1430.3 1434.7 1439.0 1443.3	1447.7 1452.0 1456.4	1465.0 1469.4 1473.7	1478.1 1482.4 1486.7	1491.1 1495.4 1499.8	1508.4 1517.1 1525.8	1534.5	1560.5 1569.2	1577.9 1586.6 1595.2	1603.9	1630.0 1638.6	1647.3 1656.0	1673.4	1690.7 1699.4 1708.1	1716.8	1742.8 1751.5	1760.2	1786.2	1803.6 1812.3 1820.9
¥	0.000.000.000.0000.0000.0000.0000.0000.0000	2000 4 4 4 4	9 9 9 9	9 9 9	0.00 4 4 4	0.000	2 0 0 0 2 0 0 0 4 4 4	4 4 5	444	4 4 4	000	20.0	90.00 4.4.00	0000	4 0 4	0.000	9.00.0	0000	000	0.00 4.000 4.000
=	301 302 302 302	302 302 302								302	_		300					305	302	305
v (cm ⁻¹ )	1344.5 1345.4 1346.4 1347.4 1348.3	1349.3 1350.3 1351.2 1352.2	1353.2 1354.1 1355.1	1358.0 1358.0 1358.9	1359.9 1360.9 1361.8	1362.8 1363.8 1364.7	1365.7 1366.7 1367.6	1368.6	1371.5	1374.4 1375.3	1376.3	1379.2 1380.2	1381.1	1384.0	1386.0 1386.9 1387.9	1388.8	1390.8 1391.7 1392.7	1393.7	1396.6	1398.5 1399.5 1404.3
×	0.000 0.005 0.005 0.005 0.005	5005	0.009	0.049	0.117	0.084	0.023	0.003	6000	4 4 4	9 9 9	4 4 4	4 4 5	8 8	0.00	0.00	0.00	4 4 5	2 2 2 3	2000
ll l	1324 1328 1328 1329 1331										_									1.299
v (cm ⁻¹ )	1287.6 1288.5 1289.5 1290.5 1291.4	1292.4 1293.4 1294.3 1295.3	1296.3 1297.2 1298.2	1300.1 1301.1 1302.0	1303.0 1304.0 1304.9	1305.9 1306.9 1307.8	1308.8 1309.8 1310.7	1311.7	1314.6	1316.5	1319.4	1322.3 1323.3 1323.3	1324.2	1327.1	1329.1 1330.0 1331.0	1331.9	1334.8 1334.8 1335.8	1336.8	1339.7	1341.6 1342.6 1343.5
11-	88888	00000	0000	5000	0000	9.00.00	5000	5005	500.00	500.00	5005	500.0	9000	0000	888	000	5000	000.00	2000	0.005
]]	1.308 1.310 1.312 1.307 1.310																			
v (cm ⁻¹ )	1230.7 1231.6 1232.6 1233.6 1233.6	1235.5 1236.5 1237.4 1238.4	1239.4 1240.3 1241.3	1243.2 1244.2 1245.1	1246.1 1247.1 1248.0	1249.0 1250.0 1250.9	1251.9 1252.9 1253.8	1255.8	1257.7	1259.6 1260.6 1261.5	1262.5	1265.4 1266.4	1267.3 1268.3 1769.3	1270.2	1272.1 1273.1 1274.1	1275.0	1277.9 1277.9 1278.9	1280.8	1282.8	1285.6 1285.6 1286.6
11-	9000 9000 9000 9000 9000	00000	9000	8000	).005 ).005 ).005	0005	000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000.000	5005	000.00	000.000.000.000	0005	2005	2005	0000	000.00	000	0000	000.000.000	000.00	0000
F	2=888																			
v (cm ⁻¹ )																				
>																				

TABLE 9C—Continued

				IADI	LE 9C-	-Continued	<u> </u>				
v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2860.2	1.295	0.002	2987.5	1.299	0.002	3044.4	1.289	0.002	3108.5	1.293	0.002
2864.5	1.294	0.002	2988.4	1.301	0.002	3045.3	1.289	0.002	3112.9	1.294	0.002
2868.8	1.296	0.000	2989.4	1.300	0.002	3046.3	1.289	0.004	3117.2	1.294	0.000
2873.2	1.295	0.002	2990.4	1.300	0.002	3047.3	1.289	0.002	3121.5	1.293	0.000
2877.5	1.294	0.002	2991.3	1.301	0.002	3048.2	1.290	0.002	3125.9	1.295	0.000
2881.9	1.295	0.000	2992.3	1.301	0.000	3049.2	1.290	0.002	3130.2	1.294	0.002
2886.2	1.295	0.002	2993.3	1.302	0.002	3050.2	1.290	0.002	3134.6	1.294	0.002
2890.5	1.296	0.002	2994.2 2995.2	1.302	0.002	3051.1	1.290	0.002	3138.9	1.294	0.002
2894.9	1.296	0.000		1.302	0.002	3052.1	1.291	0.002	3143.2	1.295	0.002
2899.2	1.296	0.000	2996.1 2997.1	1.302	0.002	3053.1 3054.0	1.291 1.291	0.002 0.002	3147.6 3151.9	1.295 1.295	0.002
2903.6 2907.9	1.297 1.296	0.000 0.002	2997.1	1.302 1.303	0.002 0.002	3055.0	1.291	0.002	3156.3	1.295	0.002 0.002
2907.9	1.295	0.002	2999.0	1.303	0.002	3055.9	1.291	0.002	3160.6	1.295	0.002
2912.2	1.295	0.002	3000.0	1.303	0.002	3056.9	1.291	0.002	3164.9	1.294	0.002
2920.9	1.296	0.002	3001.0	1.304	0.002	3057.9	1.291	0.002	3169.3	1.295	0.002
2925.3	1.297	0.002	3001.0	1.306	0.002	3058.8	1.291	0.002	3173.6	1.295	0.002
2929.6	1.296	0.002	3002.9	1.307	0.004	3059.8	1.292	0.002	3178.0	1.295	0.002
2933.9	1.297	0.000	3003.9	1.307	0.004	3060.8	1.292	0.002	3182.3	1.295	0.002
2938.3	1.297	0.000	3004.8	1.308	0.004	3061.7	1.292	0.002	3186.6	1.296	0.000
2942.6	1.296	0.002	3005.8	1.309	0.006	3062.7	1.292	0.002	3191.0	1.295	0.002
2947.0	1.297	0.000	3006.8	1.310	0.006	3063.7	1.292	0.002	3195.3	1.296	0.002
2950.8	1.297	0.002	3007.7	1.311	0.008	3064.6	1.292	0.002	3199.7	1.295	0.002
2951.8	1.298	0.002	3008.7	1.311	0.012	3065.6	1.292	0.002	3204.0	1.296	0.002
2952.7	1.297	0.002	3009.7	1.311	0.014	3066.6	1.292	0.002	3208.3	1.295	0.002
2953.7	1.297	0.002	3010.6	1.311	0.016	3067.5	1.292	0.002	3212.7	1.296	0.002
2954.7	1.297	0.002	3011.6	1.310	0.019	3068.5	1.292	0.002	3217.0	1.296	0.000
2955.6	1.298	0.002	3012.5	1.308	0.021	3069.4	1.292	0.002	3221.4	1.296	0.002
2956.6	1.297	0.000	3013.5	1.306	0.023	3070.4	1.292	0.002	3225.7	1.295	0.002
2957.6	1.298	0.002	3014.5	1.304	0.025	3071.4	1.292	0.002	3230.0	1.295	0.002
2958.5	1.297	0.000	3015.4	1.302	0.025	3072.3	1.292	0.002	3234.4	1.296	0.002
2959.5	1.299	0.002	3016.4	1.298	0.027	3073.3	1.292	0.002	3238.7	1.296	0.002
2960.5 2961.4	1.298 1.298	0.002 0.002	3017.4 3018.3	1.295 1.293	0.027 0.025	3074.3 3075.2	1.292 1.292	0.002 0.000	3243.1 3247.4	1.296 1.295	0.002 0.002
2961.4	1.298	0.002	3019.3	1.293	0.025	3075.2	1.292	0.000	3247.4	1.295	0.002
2962.4	1.297	0.002	3020.3	1.288	0.023	3070.2	1.292	0.002	3256.1	1.294	0.002
2964.3	1.298	0.002	3020.3	1.287	0.023	3078.1	1.292	0.002	3260.4	1.296	0.002
2965.3	1.298	0.002	3022.2	1.286	0.021	3079.1	1.292	0.002	3264.8	1.296	0.002
2966.3	1.297	0.002	3023.2	1.285	0.017	3080.1	1.292	0.002	3269.1	1.295	0.000
2967.2	1.297	0.002	3024.1	1.284	0.017	3081.0	1.293	0.002	3273.4	1.296	0.002
2968.2	1.297	0.000	3025.1	1.284	0.017	3082.0	1.292	0.002	3277.8	1.296	0.000
2969.1	1.298	0.002	3026.0	1.284	0.013	3083.0	1.292	0.000	3282.1	1.295	0.002
2970.1	1.297	0.000	3027.0	1.283	0.013	3083.9	1.293	0.000	3286.5	1.296	0.000
2971.1	1.298	0.000	3028.0	1.283	0.011	3084.9	1.293	0.002	3290.8	1.295	0.002
2972.0	1.298	0.000	3028.9	1.283	0.009	3085.8	1.293	0.002	3295.1	1.296	0.002
2973.0	1.299	0.000	3029.9	1.284	0.007	3086.8	1.292	0.002	3299.5	1.296	0.002
2974.0	1.299	0.002	3030.9	1.285	0.007	3087.8	1.293	0.000	3308.2	1.296	0.000
2974.9	1.298	0.000	3031.8	1.284	0.007	3088.7	1.294	0.000	3316.8	1.296	0.002
2975.9	1.300	0.000	3032.8	1.285	0.005	3089.7	1.293	0.002	3325.5	1.296	0.002
2976.9	1.299	0.000	3033.8	1.286	0.005	3090.7	1.293	0.002	3334.2	1.296	0.000
2977.8	1.299	0.002	3034.7	1.286	0.005	3091.6	1.292	0.000	3342.9	1.295	0.000
2978.8	1.300	0.000	3035.7	1.286	0.004	3092.6	1.293	0.000	3351.6	1.296	0.002
2979.8	1.300	0.002	3036.7	1.286	0.004	3093.6	1.294	0.002	3360.2	1.296	0.000
2980.7	1.299	0.002	3037.6	1.287	0.004	3094.5	1.294	0.000	3368.9	1.297	0.002
2981.7	1.299	0.002	3038.6	1.288	0.004	3095.5	1.295	0.002	3377.6	1.296	0.000
2982.6	1.299	0.002	3039.6	1.288	0.004	3096.5	1.294	0.002	3386.3	1.296	0.002
2983.6	1.300	0.000	3040.5	1.288	0.004	3097.4	1.293	0.002	3395.0	1.296	0.002
2984.6	1.300	0.002	3041.5	1.288	0.004	3098.4	1.294	0.002			
2985.5	1.300	0.002	3042.4	1.288	0.004	3099.3	1.294	0.002			
2986.5	1.300	0.002	3043.4	1.288	0.004	3104.2	1.294	0.002	l <u> </u>		

-	0000		000		20	70	7.0		1 7 0	-	7 7	77	0.7	. ~ .		7 0	2 2	7.0		-	700	2 0 0			2 2	0.7	~ ~		<del>-</del>
<u>×</u>	0.000	0.00	0.00	888	0.000	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0.002	0.00	0.00	0000	0.00	0000	0.00	900	98.0	0.00	0.00	0.002	0.000	0.000
  -	1.289 1.289 1.288	1.290	1.290	1.291	1.292	1.292	1.293	1.294	1.293	1.293	1.294	1.293 1.293	1.294	1.294	1.293	1.295	1.295	1.296	1.294	1.295	1.295	1.295	1.296	1.296	1.296	1.295	1.295	1.295	1.295
v (cm ⁻¹ )	2457.5 2466.2 2474.8 2483.5	2500.9 2509.6	2518.2 2526.9 2535.6	2544.3 2553.0	2561.7 2570.3	2579.0 2587.7	2596.4 2605.1	2613.7	2631.1	2648.5	2657.1 2665.8	2674.5 2683.2	2691.9	2709.2	2726.6	2743.9	2751.7 2756.0	2760.3 2764.7	2769.0 2773.4	7.777.7	2786.4	2795.1	2803.7	2812.4	2816.8 2821.1	2825.4 2829.8	2834.1 2838.5	2842.8	2851.5 2855.8
χ.	0.035 0.028 0.020 0.015	0.014	0.014	0.015	0.018	0.018	0.021	0.018	0.018	0.018	0.015	0.013	0.010	0.007	900	0.00	0.00	0.002	0.002	0.002	0.002	0000	0.002	0.007	0.002	0.002	0.000	0.002	0.000
	0.894 1.006 1.067 1.109	1.161	1.191	1.217	1.228	1.235	1.240	1.241	1.245	1.245	1.24/	1.247 1.249	1.250	1.253	1.255	1.259	1.260	1.265 1.268	1.270	1.274	1.275	1.280	1.284	1.284	1.284 1.284	1.284	1.287	1.287	1.288 1.288
v (cm ⁻¹ )	2147.9 2150.8 2153.7 2156.6	2162.4 2165.3	2168.1 2171.0	2176.8	2182.6 2185.5	2188.4 2191.3	2194.2	2200.0	2205.8	2211.5	2214.4 2217.3	2220.2 2223.1	2226.0 2228.9	2231.8	2237.6	2243.4	2246.3 2249.2	2257.8 2266.5	2275.2 2283.9	2292.6	2309.9	2327.3	2344.6	2362.0	2370.7 2379.4	2388.0 2396.7	2405.4 2414.1	2422.8	2440.1 2448.8
×	0.000	0.003	0.000	0.003	0.000	0.003	0.000	0.003	0.00	0.003	90.0	0.0 0.09 4.09	0.0 4.00 4.00 4.00	0.00	20.0	200	90.0	0.00	0.007	0.042	30.0	0.00	200	0.08	0.00	0.003	0.00	0.252	0.065
п	1.311 1.314 1.314 1.313	1.314	1.316	1.316	1.318	1.321	1.321	1.324	1.328	1.330	1.337	1.339	1.342	1.345	1.351	1.354	1.356	1.362	1.375	1.361	1.375	1.392	1.413	1.439	1.459 1.484	1.518	1.662	2.422	0.357
v (cm ⁻¹ )	1829.6 1838.3 1847.0 1855.7	1873.0 1881.7	1890.4 1899.1	1916.4	1933.8	1951.1 1959.8	1968.5 1977.2	1985.9	2003.2	2020.6	2029.3 2037.9	2046.6 2052.4	2055.3 2058.2	2061.1	2066.9	2072.7	2075.6 2078.4	2081.3 2084.2	2087.1 2090.0	2092.9	2098.7	2104.5	2110.3	2116.1	2119.0 2121.9	2124.7 2127.6	2130.5 2133.4	2136.3	2142.1 2145.0
<b>X</b>	0.00 0.00 4 4 4 4 5	0000	0.00	4 4	0.00	0.004	0.00 400.0	400.0	4 4	400.0	0.004	0000	4000	0000	20.0	0.00	0.00 4 40 4 40	0.00 400.0	0.00	0.00	4 4 5	4 4 5	2000	0.000	0.000	0.000	0.000	0.004	0.000
F	1.304 1.304 1.305	1.305	1.306	1304	1.308	1.305	1.307	1.305	1.307	1.307	1.305	1.305	1.306	1.306	1.308	1.308	1.308	1.309	1.308	1.308	1.308	1.307	1.307	1.306	1.310	1.310	1.310	1.313	1.313
v (cm ⁻¹ )	1408.6 1413.0 1417.3 1421.6	1430.3 1434.7	1439.0	1452.0	1460.7 1465.0	1469.4 1473.7	1478.1	1486.7	1495.4	1508.4	1525.8	1534.5 1543.2	1551.8 1560.5	1569.2	1586.6	1603.9	1612.6 1621.3	1630.0 1638.6	1647.3 1656.0	1664.7	1682.0	1699.4	1716.8	1734.1	1742.8 1751.5	1760.2 1768.9	1777.5 1786.2	1794.9	1812.3 1820.9
×	0.0000	900	0.00 2000 4 4 4	900	0.00	0.0 4 40 40	0.00	0.004	2 8	90.0	0.0	0.00 4 40	0.00 4.00 4.00	90.0	4 8	200	2.00 4.00 4.00	0.0 4 60 4 60	0.0 4.0 4.0 4.0 4.0	0000	900	3 8 8	8 8 8	90.0	0.00 4.00 4.00	0.0 4.0 4.0 4.0 7.0	0.00	0.00	0.00
=	1.300 1.303 1.302 1.301	1301	1.301	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.303	1.303 1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.302	1.301	1.306	28.5	28.5	1304	1.30 1.30 1.30 1.30 1.30 1.30	304	1.304	1.303	1.304
v (cm ⁻¹ )	1344.5 1345.4 1346.4 1347.4	1349.3 1350.3	1351.2 1352.2 1353.2	1354.1	1356.1 1357.0	1358.0 1358.9	1359.9 13 <b>6</b> 0.9	1361.8	1363.8	1365.7	1367.6	1368.6 1369.6	1370.5	1372.5	1374.4	1376.3	1377.3	1379.2 1380.2	1381.1	1383.1	1385.0	1386.9	1388.8	1390.8	1391.7 1392.7	1393.7	1395.6 1396.6	1397.5	1399.5 1404.3
<b>×</b>	0.005 0.005 0.005 0.005	0.005	0.009	0.018	0.036	0.075	0.109	0.097	0.051	0.023	0.018	0.013	0.009	0.009	0.00	0.009	0.00	0.004	0.00	0.004	4 2 2	200	4 2	0.00	0.000	0.00	0.004	0.004	0.004
c	1.324 1.326 1.327 1.327	1.334	1.338	1.353	1.364	1.360	1.324	1.270	1.250	1.258	1.269	1.274 1.276	1.280	1.284	1.287	1.287	1.289	1.291	1.293	1.295	1.296	1.296	1.297	1.298	1.298 1.298	1.299	1.299	1.299	1.299
v (cm ⁻¹ )	1287.6 1288.5 1289.5 1290.5	1292.4 1293.4	1294.3 1295.3 1296.3	1297.2	1299.2 1300.1	1301.1 1302.0	1303.0 1304.0	1304.9	1306.9	1308.8	1309.8	1311.7 1312.7	1313.6 1314.6	1315.5	1317.5	1319.4	1320.4	1322.3 1323.3	1324.2	1326.2	1328.1	1330.0	1331.9	1333.9	1334.8 1335.8	1336.8	1338.7 1339.7	1340.6	1342.6 1343.5
ĸ	0.005 0.005 0.005	0.005	0.000	0000	0.000	0.005	0.005	0.005	0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000	0.005	000	0.005	500	0.005	0.00	0000	0.005	0000	0.005	0.005	0.005
=	1.308 1.309 1.308 1.305																												
v (cm ⁻¹ )	1230.7 1231.6 1232.6 1233.6	1235.5	1237.4 1238.4 1239.4	1240.3	1242.2 1243.2	1244.2 1245.1	1246.1 1247.1	1248.0	1250.0	1251.9	1253.8	1254.8 1255.8	1256.7 1257.7	1258.6	1260.6	1262.5	1263.5 1264.4	1265.4 1266.4	1267.3 1268.3	1269.3	1271.2	1273.1	1275.0	1277.0	1277.9 1278.9	1279.9 1280.8	1281.8 1282.8	1283.7	1285.6 1286.6
*	00.006	0.006	0.000	0000	0.005	0.000	0.005	0.005	0.005	0.005	0.005	0.000	0.000	0.005	0.000	0.005	0.000	0.005	0.005	0.005	000	0000	000	0.005	0.000	0.000	0.000	0.005	0.005
18	1.314																												
v (cm ⁻¹ )	1007.9 1016.6 1025.2 1033.9	1051.3	1068.6	1094.7	1112.0	1129.4	1146.8	1157.4	1166.1	1174.7	1183.4	1187.8	1196.4 1200.8	1201.7	1203.7	1205.6	1206.6	1208.5	1210.4	1212.3	1214.3	1216.2	1218.1	1220.1	1221.0	1223.0	1224.9	1226.8	1228.7 1229.7

TABLE 9D—Continued

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		k
2860.2 1.296 0.002 2987.5 1.300 0.002 3044.4 1.290 0.004 3108.5 2864.5 1.295 0.000 2988.4 1.302 0.002 3045.3 1.290 0.004 3112.9	1.294	0.002
2864.5     1.295     0.000     2988.4     1.302     0.002     3045.3     1.290     0.004     3112.9       2868.8     1.296     0.000     2989.4     1.301     0.002     3046.3     1.290     0.004     3117.2	1.294 1.294	0.002 0.002
2863.8 1.290 0.000 2989.4 1.301 0.002 3040.3 1.290 0.004 3117.2 2873.2 1.296 0.000 2990.4 1.302 0.002 3647.3 1.291 0.004 3121.5	1.294	0.002
2877.5 1.296 0.000 2991.3 1.302 0.002 3048.2 1.291 0.004 3125.9	1.294	0.002
2881.9 1.296 0.000 2992.3 1.302 0.002 3049.2 1.291 0.004 3130.2	1.294	0.002
2886.2 1.297 0.000 2993.3 1.302 0.002 3050.2 1.291 0.004 3134.6	1.294	0.002
2890.5 1.297 0.000 2994.2 1.302 0.002 3051.1 1.291 0.004 3138.9	1.294	0.002
2894.9 1.297 0.000 2995.2 1.303 0.002 3052.1 1.291 0.004 3143.2	1.294	0.002
2899.2 1.296 0.000 2996.1 1.303 0.002 3053.1 1.291 0.004 3147.6	1.294	0.002
2903.6 1.297 0.000 2997.1 1.304 0.002 3054.0 1.291 0.004 3151.9	1.294	0.002
2907.9     1.297     0.002     2998.1     1.304     0.002     3055.0     1.291     0.004     3156.3       2912.2     1.296     0.002     2999.0     1.306     0.002     3055.9     1.291     0.004     3160.6	1.294 1.294	0.002 0.002
2912.2   1.290   0.002   2999.0   1.300   0.002   3033.9   1.291   0.004   3160.6   2916.6   1.296   0.002   3000.0   1.306   0.004   3056.9   1.291   0.004   3164.9	1.294	0.002
2920.9 1.296 0.000 3001.0 1.306 0.004 3057.9 1.291 0.002 3169.3	1.294	0.002
2925.3 1.297 0.002 3001.9 1.306 0.004 3058.8 1.292 0.004 3173.6	1.294	0.002
2929.6 1.296 0.002 3002.9 1.307 0.004 3059.8 1.292 0.004 3178.0	1.295	0.002
2933.9 1.296 0.002 3003.9 1.308 0.006 3060.8 1.291 0.004 3182.3	1.295	0.002
2938.3 1.297 0.000 3004.8 1.309 0.006 3061.7 1.291 0.004 3186.6	1.295	0.002
2942.6 1.297 0.002 3005.8 1.310 0.008 3062.7 1.291 0.002 3191.0	1.295	0.002
2947.0 1.298 0.000 3006.8 1.311 0.009 3063.7 1.291 0.004 3195.3	1.295	0.002
2950.8 1.299 0.002 3007.7 1.312 0.011 3064.6 1.291 0.002 3199.7	1.295	0.002
2951.8 1.298 0.002 3008.7 1.311 0.013 3065.6 1.291 0.004 3204.0	1.295	0.002
2952.7 1.298 0.002 3009.7 1.310 0.017 3066.6 1.290 0.002 3208.3	1.295	0.002
2953.7 1.297 0.002 3010.6 1.310 0.019 3067.5 1.292 0.002 3212.7	1.295	0.002
2954.7     1.297     0.002     3011.6     1.307     0.020     3068.5     1.292     0.004     3217.0       2955.6     1.297     0.002     3012.5     1.305     0.022     3069.4     1.291     0.002     3221.4	1.295 1.295	0.002
2955.6     1.297     0.002     3012.5     1.305     0.022     3069.4     1.291     0.002     3221.4       2956.6     1.298     0.000     3013.5     1.303     0.024     3070.4     1.291     0.004     3225.7	1.295	0.002 0.002
2957.6   1.299   0.002   3014.5   1.300   0.024   3071.4   1.291   0.002   3230.0	1.295	0.002
2958.5   1.298   0.000   3015.4   1.298   0.024   3072.3   1.292   0.002   3234.4	1.295	0.002
2959.5 1.297 0.002 3016.4 1.296 0.024 3073.3 1.292 0.002 3238.7	1.295	0.002
2960.5 1.298 0.000 3017.4 1.293 0.024 3074.3 1.292 0.002 3243.1	1.295	0.002
2961.4 1.299 0.000 3018.3 1.292 0.022 3075.2 1.292 0.002 3247.4	1.295	0.002
2962.4 1.298 0.002 3019.3 1.290 0.020 3076.2 1.292 0.002 3251.7	1.295	0.002
2963.4 1.298 0.002 3020.3 1.289 0.020 3077.2 1.292 0.002 3256.1	1.295	0.002
2964.3 1.299 0.000 3021.2 1.288 0.018 3078.1 1.292 0.002 3260.4	1.294	0.002
2965.3 1.298 0.002 3022.2 1.287 0.016 3079.1 1.292 0.002 3264.8	1.295	0.002
2966.3 1.298 0.000 3023.2 1.287 0.016 3080.1 1.293 0.002 3269.1	1.295	0.000
2967.2     1.299     0.000     3024.1     1.286     0.015     3081.0     1.293     0.002     3273.4       2968.2     1.298     0.002     3025.1     1.286     0.013     3082.0     1.293     0.002     3277.8	1.295 1.295	0.002
2968.2     1.298     0.002     3025.1     1.286     0.013     3082.0     1.293     0.002     3277.8       2969.1     1.299     0.002     3026.0     1.286     0.013     3083.0     1.293     0.002     3282.1	1.293	0.000
2970.1   1.299   0.000   3027.0   1.286   0.011   3083.9   1.293   0.002   3282.1	1.295	0.000
2971.1   1.299   0.000   3028.0   1.286   0.011   3084.9   1.293   0.002   3290.8	1.295	0.000
2972.0 1.300 0.000 3028.9 1.286 0.009 3085.8 1.293 0.002 3295.1	1.294	0.002
2973.0 1.300 0.002 3029.9 1.287 0.009 3086.8 1.293 0.002 3299.5	1.295	0.002
2974.0 1.299 0.002 3030.9 1.286 0.009 3087.8 1.293 0.002 3308.2	1.296	0.002
2974.9 1.299 0.002 3031.8 1.287 0.007 3088.7 1.293 0.002 3316.8	1.296	0.002
2975.9 1.299 0.000 3032.8 1.287 0.007 3089.7 1.293 0.002 3325.5	1.296	0.002
2976.9 1.301 0.000 3033.8 1.287 0.007 3090.7 1.293 0.002 3334.2	1.296	0.000
2977.8 1.300 0.002 3034.7 1.287 0.005 3091.6 1.293 0.002 3342.9	1.295	0.002
2978.8 1.300 0.000 3035.7 1.288 0.005 3092.6 1.293 0.002 3351.6	1.296	0.002
2979.8 1.300 0.002 3036.7 1.288 0.005 3093.6 1.293 0.002 3360.2	1.295	0.000
2980.7 1.300 0.002 3037.6 1.288 0.005 3094.5 1.293 0.002 3368.9	1.295	0.002
2981.7 1.300 0.002 3038.6 1.288 0.005 3095.5 1.293 0.002 3377.6	1.295	0.000
2982.6     1.301     0.002     3039.6     1.288     0.005     3096.5     1.293     0.002     3386.3       2983.6     1.301     0.002     3040.5     1.288     0.003     3097.4     1.293     0.002     3395.0	1.296 1.296	0.002 0.002
2984.6 1.301 0.002 3041.5 1.289 0.003 3098.4 1.293 0.002 3393.0	1.290	0.002
2985.5 1.301 0.002 3042.4 1.289 0.004 3099.3 1.293 0.002		
2986.5 1.301 0.002 3043.4 1.290 0.004 3104.2 1.294 0.002		

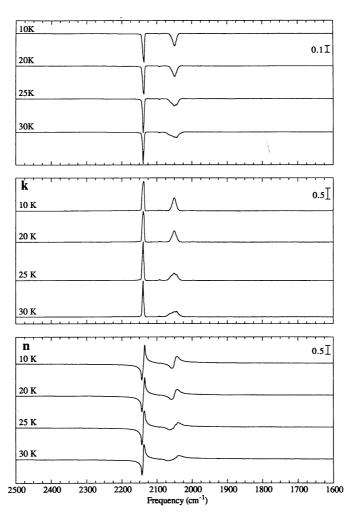


FIG. 10.—The 2500 to  $1600 \, \mathrm{cm^{-1}}$  transmission spectra and optical constants (n and k) of a CO:OCS = 20:1 ice mixture at temperatures of 10, 20, 25, and 30 K. The original ice was deposited at 10 K.

TABLE 10A CO:OCS = 20:1 AT 10 K

			1	-		1			. 1		
ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
1610.2	1.318	0.004	2033.1	1.498	0.003	2118.5	1.420	0.004	2147.9	0.893	0.028
1620.8	1.318	0.004	2034.6	1.518	0.008	2119.9	1.433	0.004	2148.4	0.917	0.025
1631.4	1.317	0.004	2036.0	1.544	0.017	2120.4	1.437	0.004	2148.9	0.938	0.026
1642.0	1.318	0.004	2037.5	1.574	0.032	2120.9	1.442	0.004	2149.3	0.956	0.023
1652.6	1.315	0.000	2038.9	1.607	0.059	2121.4	1.447	0.004	2149.8	0.972	0.024
1663.2	1.318	0.000	2040.4	1.639	0.100.	2121.9	1.452	0.004	2150.3	0.987	0.021
1673.8	1.319	0.000	2041.8	1.661	0.157	2122.3	1.458	0.001	2150.8	1.001	0.022
1684.5	1.319	0.000	2043.2	1.671	0.224	2122.8	1.465	0.001	2151.3	1.013	0.023
1695.1	1.320	0.004	2044.7	1.668	0.301	2123.3 2123.8	1.473	0.001	2151.7 2152.2	1.023	0.023
1705.7	1.320	0.004	2046.1	1.646	0.394 0.492	2123.8	1.480 1.488	0.000	2152.2	1.032	0.020
1716.3	1.320	0.004	2047.6	1.584		2124.3	1.496	0.003	2153.7	1.042	0.021
1726.9	1.320	0.004 0.004	2049.0 2050.5	1.478	0.563 0.586	2124.7	1.505	0.003	2153.2	1.051	0.021
1737.5	1.321			1.354	0.561	2125.2	1.515	0.000	2154.2	1.065	0.021
1748.1 1758.7	1.320	0.004 0.004	2051.9 2053.4	1.233	0.301	2125.7	1.525	0.003	2154.6	1.073	0.019
1769.3	1.323	0.004	2053.4	1.070	0.497	2126.7	1.535	0.003	2155.1	1.079	0.019
1779.9	1.323	0.000	2056.3	1.043	0.324	2127.2	1.547	0.002	2155.6	1.085	0.019
1790.6	1.323	0.004	2057.7	1.036	0.324	2127.6	1.562	0.000	2156.1	1.090	0.019
1801.2	1.323	0.004	2059.2	1.035	0.194	2128.1	1.576	0.001	2156.6	1.095	0.016
1811.8	1.324	0.004	2060.6	1.045	0.138	2128.6	1.593	0.000	2157.1	1.101	0.017
1822.4	1.324	0.004	2062.1	1.067	0.086	2129.1	1.612	0.000	2157.5	1.107	0.017
1833.0	1.326	0.000	2063.5	1.100	0.048	2129.6	1.632	0.000	2158.0	1.111	0.017
1843.6	1.326	0.004	2064.9	1.131	0.029	2130.0	1.657	0.000	2158.5	1.116	0.017
1854.2	1.328	0.004	2066.4	1.161	0.017	2130.5	1.684	0.000	2159.0	1.120	0.017
1864.8	1.331	0.000	2067.8	1.182	0.014	2131.0	1.717	0.000	2159.5	1.123	0.017
1875.4	1.333	0.000	2069.3	1.200	0.009	2131.5	1.756	0.000	2159.9	1.127	0.018
1886.0	1.333	0.004	2070.7	1.216	0.009	2132.0	1.804	0.000	2170.6	1.181	0.016
1896.6	1.333	0.004	2072.2	1.228	0.010	2132.5	1.863	0.007	2181.2	1.204	0.017
1907.3	1.336	0.004	2073.6	1.238	0.010	2132.9	1.938	0.022	2191.8	1.220	0.014
1917.9	1.337	0.004	2075.1	1.247	0.007	2133.4	2.029	0.057	2202.4	1.230	0.014
1928.5	1.341	0.004	2076.5	1.256	0.007	2133.9	2.134	0.127	2213.0	1.236	0.012
1939.1	1.342	0.000	2078.0	1.264	0.008	2134.4	2.239	0.257	2223.6	1.241	0.012
1949.7	1.346	0.000	2079.4	1.270	800.0	2134.9	2.311	0.465	2234.2	1.245	0.009
1960.3	1.351	0.004	2080.9	1.277	0.008	2135.4	2.311	0.728	2244.8	1.249	0.007
1970.9	1.356	0.004	2082.3	1.283	0.008	2135.8	2.223	0.982	2255.4	1.253	0.004
1981.5	1.363	0.004	2083.8	1.289	0.008	2136.3	2.071	1.169	2266.0	1.258	0.004
1992.1	1.375	0.007	2085.2	1.296	0.008	2136.8	1.893	1.280	2276.6	1.260	0.004
2001.3	1.374	0.007	2086.6	1.302	0.011	2137.3	1.718	1.330	2287.3	1.263	0.004
2002.7	1.377	0.004	2088.1	1.308	0.014	2137.8	1.553	1.348	2297.9	1.263	0.004
2004.2	1.380	0.004	2089.5	1.313	0.020	2138.2	1.404	1.342	2308.5	1.267	0.002
2005.6	1.383	0.004	2091.0	1.313	0.028	2138.7	1.265	1.325	2319.1	1.270	0.002
2007.1	1.385	0.004	2092.4	1.304	0.031	2139.2	1.135	1.288	2329.7	1.271	0.004
2008.5	1.388	0.004	2093.9	1.301	0.019	2139.7	1.016	1.239	2340.3	1.273	0.002
2010.0	1.391	0.004	2095.3	1.306	0.011	2140.2	0.909	1.178	2350.9	1.272	0.002
2011.4	1.394	0.004	2096.8	1.315	0.009	2140.7	0.811	1.111	2361.5	1.273	0.002
2012.9	1.397	0.007	2098.2	1.321	0.009	2141.1	0.722	1.039	2372.1	1.275	0.002
2014.3	1.398	0.004	2099.7	1.326	0.009	2141.6	0.640	0.954	2382.7	1.276	0.002
2015.8	1.402	0.004	2101.1	1.330	0.009	2142.1	0.567	0.866	2393.4 2404.0	1.277	0.000
2017.2	1.406	0.004	2102.6	1.336	0.006	2142.6 2143.1	0.495 0.426	0.774 0.652	2404.0	1.278 1.279	0.002
2018.7	1.410	0.004	2104.0	1.342 1.348	0.006	2143.1	0.426	0.652	2414.6	1.279	0.002
2020.1	1.414 1.419	0.004 0.001	2105.5 2106.9	1.348	0.006	2143.0	0.387	0.473	2425.2	1.280	0.002
2021.5 2023.0	1.419	0.001	2108.3	1.360	0.006	2144.5	0.504	0.209	2446.4	1.281	0.000
2023.0	1.425	0.004	2108.3	1.366	0.006	2144.5	0.604	0.123	2457.0	1.281	0.002
2024.4	1.430	0.001	2109.8	1.373	0.006	2145.5	0.685	0.003	2467.6	1.281	0.002
2025.9	1.439	0.001	2111.2	1.380	0.006	2145.5	0.063	0.044	2478.2	1.283	0.002
2027.3	1.446	0.001	2112.7	1.387	0.004	2146.0	0.797	0.037	2488.8	1.282	0.000
2030.2	1.450	0.001	2115.6	1.397	0.004	2146.9	0.835	0.033	2499.4	1.282	0.000
2030.2	1.480	0.003	2117.0	1.408	0.004	2147.4	0.866	0.030	1		5.000
2031./	1.400	0.003	4117.0	1.400	0.004	4177.4	0.000	0.050	<u> </u>		

TABLE 10B CO:OCS = 20:1 AT 20 K

v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	
1610.2	1.314	0.000	2033.1	1.490	0.006	2118.5	1.420	0.001	2147.9	0.910	0.036
1620.8	1.317	0.000	2034.6	1.511	0.013	2119.9	1.432	0.001	2148.4	0.931	0.033
1631.4	1.315	0.000	2036.0	1.535	0.024	2120.4	1.437	0.001	2148.9	0.950	0.034
1642.0	1.318	0.004	2037.5	1.560	0.045	2120.9	1.442	0.001	2149.3	0.966	0.031
1652.6	1.316	0.004	2038.9	1.585	0.076	2121.4	1,447	0.001	2149.8	0.981	0.028
1663.2	1.316	0.004	2040.4	1.607	0.118	2121.9	1.453	0.001	2150.3	0.996	0.029
1673.8	1.318	0.000	2041.8	1.617	0.173	2122.3	1.458	0.001	2150.8	1.007	0.029
1684.5	1.317	0.004	2043.2	1.611	0.229	2122.8	1.465	0.001	2151.3	1.018	0.026
1695.1	1.320	0.000	2044.7	1.597	0.280	2123.3	1.471	0.001	2151.7	1.028	0.027
1705.7	1.319	0.004	2046.1	1.578	0.346	2123.8	1.478	0.001	2152.2	1.038	0.024
1716.3	1.317	0.004	2047.6	1.532	0.420	2124.3	1.486	0.000	2152.7	1.047	0.024
1726.9	1.319	0.000	2049.0	1.451	0.478	2124.7	1.495	0.000	2153.2	1.054	0.024
1737.5	1.318	0.000	2050.5	1.349	0.503	2125.2	1.503	0.003	2153.7	1.062	0.021
1748.1	1.321	0.004	2051.9	1.247	0.479	2125.7	1.511	0.003	2154.2	1.070	0.022
1758.7	1.321	0.004	2053.4	1.170	0.421	2126.2	1.521	0.003	2154.6	1.075	0.022
1769.3	1.320	0.000	2054.8	1.123	0.355	2126.7	1.531	0.002	2155.1	1.082	0.019
1779.9	1.320	0.000	2056.3	1.099	0.297	2127.2	1.543	0.002	2155.6	1.088	0.019
1790.6	1.323	0.004	2057.7	1.087	0.244	2127.6	1.555	0.002	2156.1	1.094	0.016
1801.2	1.322	0.000	2059.2	1.077	0.197	2128.1	1.570	0.001	2156.6	1.100	0.020
1811.8	1.322	0.000	2060.6	1.075	0.146	2128.6	1.585	0.003	2157.1	1.104	0.017
1822.4	1.325	0.000	2062.1	1.088	0.096	2129.1	1.602	0.003	2157.5	1.109	0.017
1833.0	1.323	0.004	2063.5	1.112	0.055	2129.6	1.622	0.002	2158.0	1.114	0.017
1843.6	1.328	0.000	2064.9	1.142	0.032	2130.0	1.644	0.003	2158.5	1.117	0.017
1854.2	1.326	0.000	2066.4	1.167	0.020	2130.5	1.669	0.004	2159.0	1.122	0.014
1864.8	1.327	0.004	2067.8	1.189	0.012	2131.0	1.699	0.004	2159.5	1.127	0.014
1875.4	1.330	0.000	2069.3	1.207	0.009	2131.5	1.734	0.006	2159.9	1.131	0.015
1886.0	1.331	0.004	2070.7	1.221	0.007	2132.0	1.776	0.009	2170.6	1.184	0.013
1896.6	1.331	0.004	2072.2	1.234	0.007	2132.5	1.827	0.015	2181.2	1.209	0.014
1907.3	1.332	0.004	2073.6	1.243	0.007	2132.9	1.891	0.028	2191.8	1.222	0.014
1917.9	1.335	0.004	2075.1	1.252	0.004	2133.4	1.969	0.053	2202.4	1.233	0.012
1928.5	1.338	0.000	2076.5	1.261	0.005	2133.9	2.063	0.103	2213.0	1.237	0.012
1939.1	1.339	0.000	2078.0	1.268	0.005	2134.4	2.165	0.201	2223.6	1.244	0.009
1949.7	1.344	0.000	2079.4	1.275	0.005	2134.9	2.249	0.368	2234.2	1.248	0.007
1960.3	1.348	0.000	2080.9	1.281	0.005	2135.4	2.278	0.599	2244.8	1.252	0.004
1970.9	1.353	0.000	2082.3	1.287	0.005	2135.8	2.229	0.844	2255.4	1.257	0.004
1981.5	1.358	0.004	2083.8	1.293	0.005	2136.3	2.113	1.043	2266.0	1.258	0.004
1992.1	1.370	0.004	2085.2	1.299	0.006	2136.8	1.964	1.171	2276.6	1.263	0.002
2001.3	1.369	0.004	2086.6	1.306	0.008	2137.3	1.813	1.249	2287.3	1.266	0.002
2002.7	1.372	0.004	2088.1	1.311	0.011	2137.8	1.664	1.302	2297.9	1.268	0.002
2004.2	1.374	0.004	2089.5	1.315	0.017	2138.2	1.519	1.344	2308.5	1.271	0.002
2005.6	1.377	0.001	2091.0	1.316	0.025	2138.7	1.362	1.377	2319.1	1.273	0.002
2007.1	1.380	0.001	2092.4	1.307	0.031	2139.2	1.195	1.371	2329.7	1.274	0.002
2008.5	1.384	0.001	2093.9	1.301	0.017	2139.7	1.039	1.316	2340.3	1.275	0.002
2010.0	1.385	0.004	2095.3	1.309	0.008	2140.2	0.904	1.242	2350.9	1.275	0.002
2011.4	1.388	0.004	2096.8	1.317	0.006	2140.7	0.787	1.155	2361.5	1.276	0.002
2012.9	1.390	0.004	2098.2	1.323	0.006	2141.1	0.689	1.056	2372.1	1.277	0.002
2014.3	1.393	0.004	2099.7	1.327	0.003	2141.6	0.606	0.954	2382.7	1.278	0.002
2015.8	1.396	0.004	2101.1	1.333	0.003	2142.1	0.533	0.853	2393.4	1.279	0.000
2017.2	1.398	0.004	2102.6	1.339	0.003	2142.6	0.463	0.742	2404.0	1.280	0.002
2018.7	1.402	0.004	2104.0	1.344	0.003	2143.1	0.406	0.593	2414.6	1.280	0.002
2020.1	1.407	0.001	2105.5	1.350	0.004	2143.6	0.399	0.387	2425.2	1.281	0.002
2021.5	1.412	0.001	2106.9	1.355	0.004	2144.0	0.463	0.205	2435.8	1.281	0.002
2023.0	1.418	0.001	2108.3	1.361	0.004	2144.5	0.561	0.113	2446.4	1.281	0.000
2024.4	1.424	0.001	2109.8	1.368	0.004	2145.0	0.649	0.075	2457.0	1.283	0.002
2025.9	1.431	0.001	2111.2	1.374	0.004	2145.5	0.718	0.055	2467.6	1.282	0.002
2027.3	1.439	0.001	2112.7	1.381	0.004	2146.0	0.773	0.048	2478.2	1.283	0.002
2028.8	1.449	0.001	2114.1	1.387	0.004	2146.4	0.817	0.040	2488.8	1.283	0.002
2030.2	1.459	0.004	2115.6	1.398	0.001	2146.9	0.854	0.038	2499.4	1.282	0.002
2031.7	1.472	0.004	2117.0	1.408	0.001	2147.4	0.885	0.035	L		

TABLE 10C CO:OCS = 20:1 AT 25 K

( 1)	-					(1)		1-	(1)		1-
v (cm ⁻¹ )	n	<u>k</u>	v (cm ⁻¹ )	n 105	<u>k</u>	ν (cm ⁻¹ )	n	<u>k</u>	v (cm ⁻¹ )	n	<u>k</u>
1610.2	1.317	0.000	2033.1	1.495	0.026	2118.5	1.417	0.004	2147.9	0.892	0.036
1620.8	1.316	0.004	2034.6	1.511	0.040	2119.9	1.429 1.433	0.004	2148.4	0.915	0.037
1631.4	1.316	0.004	2036.0	1.527	0.062	2120.4		0.004	2148.9 2149.3		0.034
1642.0	1.316	0.004	2037.5 2038.9	1.541	0.089	2120.9 2121.4	1.438 1.443	0.004 0.004	2149.3	0.953 0.970	0.031 0.031
1652.6	1.315	0.004	2038.9	1.550 1.552	0.124 0.166	2121.4	1.448	0.004	2149.8	0.970	0.031
1663.2	1.315	0.004	2040.4	1.532	0.100	2122.3	1.453	0.004	2150.5	0.997	0.028
1673.8 1684.5	1.313 1.316	0.004	2041.8	1.500	0.259	2122.3	1.458	0.004	2151.3	1.009	0.026
1695.1	1.318	0.004	2043.2	1.454	0.264	2122.8	1.464	0.001	2151.7	1.020	0.026
1705.7	1.317	0.004	2046.1	1.438	0.257	2123.8	1.472	0.001	2152.2	1.030	0.023
1716.3	1.315	0.004	2047.6	1.431	0.276	2124.3	1.478	0.003	2152.7	1.039	0.024
1726.9	1.317	0.000	2049.0	1.407	0.311	2124.7	1.486	0.000	2153.2	1.048	0.021
1737.5	1.316	0.000	2050.5	1.355	0.337	2125.2	1.495	0.000	2153.7	1.057	0.021
1748.1	1.319	0.000	2051.9	1.295	0.327	2125.7	1.503	0.003	2154.2	1.063	0.022
1758.7	1.319	0.000	2053.4	1.256	0.295	2126.2	1.512	0.003	2154.6	1.070	0.019
1769.3	1.321	0.000	2054.8	1.234	0.265	2126.7	1.521	0.003	2155.1	1.077	0.019
1779.9	1.320	0.000	2056.3	1.219	0.244	2127.2	1.532	0.002	2155.6	1.084	0.016
1790.6	1.322	0.000	2057.7	1.204	0.226	2127.6	1.543	0.002	2156.1	1.091	0.016
1801.2	1.322	0.000	2059.2	1.191	0.208	2128.1	1.556	0.002	2156.6	1.096	0.016
1811.8	1.324	0.000	2060.6	1.174	0.186	2128.6	1.571	0.001	2157.1	1.101	0.017
1822.4	1.324	0.000	2062.1	1.161	0.160	2129.1	1.586	0.003	2157.5	1.106	0.014
1833.0	1.324	0.000	2063.5	1.156	0.127	2129.6	1.603	0.002	2158.0	1.112	0.014
1843.6	1.328	0.000	2064.9	1.156	0.101	2130.0	1.623	0.004	2158.5	1.117	0.014
1854.2	1.327	0.000	2066.4	1.161	0.071	2130.5	1.644	0.005	2159.0	1.122	0.014
1864.8	1.328	0.004	2067.8	1.176	0.046	2131.0	1.669	0.006	2159.5	1.126	0.014
1875.4	1.329	0.000	2069.3	1.194	0.027	2131.5	1.698	0.006	2159.9	1.130	0.015
1886.0	1.330	0.004	2070.7	1.211	0.018	2132.0	1.733	0.010	2170.6	1.185	0.013
1896.6	1.330	0.004	2072.2	1.227 1.241	0.013	2132.5 2132.9	1.773 1.821	0.015 0.025	2181.2 2191.8	1.211 1.226	0.014 0.014
1907.3 1917.9	1.331 1.334	0.004 0.004	2073.6 2075.1	1.251	0.010 0.007	2133.4	1.879	0.023	2202.4	1.235	0.014
1917.9	1.338	0.004	2075.1	1.261	0.007	2133.4	1.946	0.041	2213.0	1.240	0.015
1939.1	1.339	0.000	2078.0	1.269	0.008	2134.4	2.021	0.123	2223.6	1.244	0.012
1949.7	1.344	0.000	2079.4	1.276	0.008	2134.9	2.096	0.207	2234.2	1.248	0.007
1960.3	1.347	0.004	2080.9	1.281	0.008	2135.4	2.158	0.329	2244.8	1.253	0.007
1970.9	1.352	0.004	2082.3	1.287	0.005	2135.8	2.192	0.476	2255.4	1.256	0.004
1981.5	1.357	0.004	2083.8	1.295	0.005	2136.3	2.197	0.625	2266.0	1.261	0.004
1992.1	1.367	0.007	2085.2	1.303	0.008	2136.8	2.186	0.770	2276.6	1.264	0.004
2001.3	1.368	0.004	2086.6	1.308	0.008	2137.3	2.166	0.926	2287.3	1.266	0.004
2002.7	1.371	0.004	2088.1	1.314	0.011	2137.8	2.117	1.126	2297.9	1.268	0.004
2004.2	1.374	0.004	2089.5	1.317	0.017	2138.2	2.002	1.385	2308.5	1.270	0.004
2005.6	1.376	0.004	2091.0	1.322	0.022	2138.7	1.778	1.637	2319.1	1.270	0.004
2007.1	1.378	0.004	2092.4	1.314	0.039	2139.2	1.468	1.755	2329.7	1.273	0.002
2008.5	1.380	0.004	2093.9	1.301	0.019	2139.7	1.160	1.702	2340.3	1.275	0.002
2010.0	1.382	0.004	2095.3	1.310	0.008	2140.2	0.915	1.557	2350.9	1.273	0.004
2011.4	1.385	0.004	2096.8	1.319	0.006	2140.7	0.741	1.384	2361.5	1.274	0.002
2012.9	1.388	0.004	2098.2	1.325	0.006	2141.1	0.620	1.226	2372.1	1.276	0.002
2014.3	1.391	0.004	2099.7	1.331	0.006	2141.6	0.531	1.076	2382.7	1.277	0.002
2015.8	1.394	0.004	2101.1	1.336	0.006	2142.1	0.464	0.934	2393.4	1.278	0.002
2017.2	1.397	0.004	2102.6	1.341	0.006	2142.6	0.408	0.805	2404.0	1.279 1.280	0.002
2018.7	1.400	0.004	2104.0	1.345	0.006	2143.1	0.353	0.666	2414.6 2425.2	1.280	0.002 0.002
2020.1	1.405	0.004	2105.5	1.350	0.006	2143.6	0.333	0.456 0.239	2425.2	1.281	0.002
2021.5	1.409	0.001	2106.9 2108.3	1.354 1.361	0.006 0.004	2144.0 2144.5	0.592	0.239	2433.6	1.282	0.002
2023.0	1.416	0.004	2108.3	1.368	0.004	2144.5	0.605	0.119	2440.4	1.282	0.002
2024.4 2025.9	1.422 1.431	0.001 0.004	2109.8	1.306	0.004	2145.5	0.684	0.073	2467.6	1.283	0.002
2025.9	1.431	0.004	2111.2	1.380	0.006	2145.5	0.744	0.059	2478.2	1.283	0.002
2027.3	1.459	0.004	2112.7	1.388	0.004	2146.0	0.792	0.031	2478.2	1.283	0.002
2030.2	1.463	0.009	2115.6	1.397	0.004	2146.9	0.831	0.041	2499.4	1.282	0.002
2030.2	1.478	0.005	2117.0	1.407	0.004	2147.4	0.864	0.038	1	0	0.302

TABLE 10D CO:OCS = 20:1 AT 30 K

						20.1 AT 30					
ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
1610.2	1.315	0.000	2033.1	1.470	0.058	2118.5	1.393	0.004	2147.9	0.959	0.035
1620.8	1.317	0.004	2034.6	1.477	0.073	2119.9	1.403	0.004	2148.4	0.979	0.032
1631.4	1.318	0.004	2036.0	1.484	0.091	2120.4	1.406	0.004	2148.9	0.996	0.033
1642.0	1.315	0.004	2037.5	1.487	0.109	2120.9	1.410	0.004	2149.3	1.010	0.030
1652.6	1.314	0.004	2038.9	1.491	0.135	2121.4	1.414	0.004	2149.8	1.024	0.030
1663.2	1.314	0.004	2040.4	1.485	0.166	2121.9	1.418	0.004	2150.3	1.035	0.027
1673.8	1.312	0.000	2041.8	1.474	0.200	2122.3	1.423	0.004	2150.8	1.046	0.028
1684.5	1.315	0.004	2043.2	1.440	0.240	2122.8	1.427	0.004	2151.3	1.056	0.025
1695.1	1.318	0.000	2044.7	1.388	0.236	2123.3	1.432	0.004	2151.7	1.066	0.025
1705.7	1.316	0.004	2046.1	1.369	0.214	2123.8	1.437	0.004	2152.2	1.073	0.025
1716.3	1.314	0.004	2047.6	1.363	0.212	2124.3	1.442	0.004	2152.7	1.081	0.022
1726.9	1.315	0.004	2049.0	1.353	0.222	2124.7	1.449	0.001	2153.2	1.089	0.023
1737.5	1.314	0.000	2050.5	1.327	0.232	2125.2	1.457	0.001	2153.7	1.094	0.023
1748.1	1.318	0.004	2051.9	1.299	0.220	2125.7	1.464	0.004	2154.2	1.100	0.020
1758.7	1.316	0.000	2053.4	1.283	0.203	2126.2	1.470	0.004	2154.6	1.107	0.020
1769.3	1.318	0.000	2054.8	1.272	0.192	2126.7	1.478	0.003	2155.1	1.112	0.020
1779.9	1.317	0.000	2056.3	1.265 1.259	0.180	2127.2	1.486	0.003	2155.6	1.117	0.017
1790.6	1.322	0.000	2057.7		0.171	2127.6	1.496	0.000	2156.1	1.122	0.017
1801.2	1.320 1.320	0.000	2059.2 2060.6	1.253 1.242	0.165 0.160	2128.1 2128.6	1.507 1.518	0.003	2156.6	1.126	0.018
1811.8 1822.4	1.320	0.000	2060.6	1.242	0.160	2128.6	1.518	0.003 0.002	2157.1 2157.5	1.131	0.015
	1.321	0.000	2062.1	1.224	0.131	2129.1			2157.3	1.136	0.015
1833.0 1843.6	1.323	0.004	2063.3	1.216	0.139	2129.0	1.546 1.562	0.002 0.004	2158.5	1.140 1.143	0.015 0.015
1854.2	1.323	0.000	2066.4	1.211	0.127	2130.5	1.579	0.004	2159.0	1.143	0.013
1864.8	1.325	0.000	2067.8	1.207	0.095	2130.3	1.598	0.007	2159.5	1.147	0.012
1875.4	1.323	0.000	2069.3	1.207	0.080	2131.5	1.621	0.007	2159.5	1.152	0.012
1886.0	1.327	0.004	2009.3	1.209	0.064	2131.5	1.647	0.008	2170.6	1.202	0.013
1896.6	1.328	0.003	2072.2	1.214	0.049	2132.5	1.678	0.011	2170.0	1.224	0.015
1907.3	1.329	0.003	2073.6	1.223	0.033	2132.9	1.714	0.022	2191.8	1.235	0.015
1917.9	1.331	0.004	2075.1	1.233	0.028	2133.4	1.757	0.034	2202.4	1.242	0.015
1928.5	1.335	0.000	2076.5	1.242	0.019	2133.9	1.807	0.054	2213.0	1.246	0.012
1939.1	1.334	0.004	2078.0	1.252	0.016	2134.4	1.863	0.085	2223.6	1.250	0.009
1949.7	1.340	0.000	2079.4	1.260	0.013	2134.9	1.924	0.134	2234.2	1.254	0.007
1960.3	1.343	0.004	2080.9	1.269	0.011	2135.4	1.982	0.213	2244.8	1.257	0.004
1970.9	1.347	0.004	2082.3	1.274	0.011	2135.8	2.027	0.311	2255.4	1.262	0.004
1981.5	1.351	0.000	2083.8	1.282	0.008	2136.3	2.060	0.416	2266.0	1.265	0.004
1992.1	1.359	0.007	2085.2	1.289	0.008	2136.8	2.088	0.529	2276.6	1.268	0.004
2001.3	1.364	0.004	2086.6	1.297	0.011	2137.3	2.115	0.667	2287.3	1.269	0.004
2002.7	1.366	0.004	2088.1	1.302	0.014	2137.8	2.118	0.875	2297.9	1.270	0.004
2004.2	1.367	0.004	2089.5	1.303	0.017	2138.2	2.044	1.166	2308.5	1.272	0.004
2005.6	1.370	0.001	2091.0	1.311	0.020	2138.7	1.837	1.471	2319.1	1.274	0.002
2007.1	1.372	0.004	2092.4	1.304	0.039	2139.2	1.523	1.622	2329.7	1.276	0.002
2008.5	1.376	0.001	2093.9	1.291	0.017	2139.7	1.202	1.586	2340.3	1.277	0.002
2010.0	1.378	0.004	2095.3	1.301	0.008	2140.2	0.946	1.435	2350.9	1.278	0.002
2011.4	1.380	0.004	2096.8	1.309	0.008	2140.7	0.771	1.255	2361.5	1.279	0.002
2012.9	1.382	0.004	2098.2	1.313	0.008	2141.1	0.655	1.086	2372.1	1.280	0.002
2014.3	1.384	0.004	2099.7	1.318	0.006	2141.6	0.575	0.931	2382.7	1.281	0.002
2015.8	1.388	0.001	2101.1	1.323	0.006	2142.1	0.516	0.793	2393.4	1.281	0.002
2017.2	1.393	0.004	2102.6	1.327	0.006	2142.6	0.465	0.654	2404.0	1.282	0.002
2018.7	1.399	0.001	2104.0	1.332	0.006	2143.1	0.443	0.467	2414.6	1.283	0.002
2020.1	1.404	0.004	2105.5	1.337	0.006	2143.6	0.483	0.271	2425.2	1.283	0.002
2021.5	1.410	0.004	2106.9	1.341	0.006	2144.0	0.573	0.143	2435.8	1.284	0.002
2023.0	1.418	0.007	2108.3	1.346	0.006	2144.5	0.666	0.091	2446.4	1.284	0.002
2024.4	1.424	0.009	2109.8	1.351	0.006	2145.0	0.740	0.065	2457.0	1.284	0.002
2025.9	1.432	0.014	2111.2	1.357	0.006	2145.5	0.799	0.053	2467.6	1.285	0.002
2027.3	1.439	0.019	2112.7	1.362	0.006	2146.0	0.845	0.046	2478.2	1.285	0.002
2028.8	1.448	0.027	2114.1	1.367	0.004	2146.4	0.882	0.043	2488.8	1.285	0.002
2030.2	1.455	0.037	2115.6	1.375	0.004	2146.9	0.912	0.040	2499.4	1.283	0.002
2031.7	1.463	0.047	2117.0	1.384	0.004	2147.4	0.937	0.038	L		

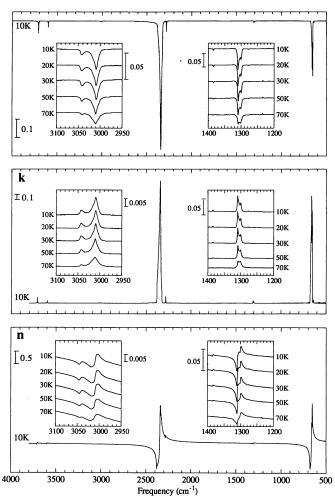


FIG. 11.—The 4000 to 500 cm⁻¹ transmission spectrum and optical constants (n and k) of a CO₂:CH₄ = 20:1 ice mixture at 10 K. The insets show expansions of the CH₄ features in the 3100 to 2950 cm⁻¹ and 1400 to 1200 cm⁻¹ regions for the ice at temperatures of 10, 20, 30, 50, and 70 K. The original ice was deposited at 10 K.

TABLE 11A  $CO_2$ : $CH_4 = 20$ :1 AT 10 K

74	P	0.004
E	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.412 .416 .418
(cm ⁻¹ )	7 (cm ⁻¹ ) 2009.5 2009.5 2009.5 2009.5 2009.5 2009.5 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.6 2009.	2245.8 2247.7 2249.6
) <u>&gt;</u>	>	
×		0.002
r c	1236   1236   1237   1238 	1.269 1.272 1.273
v (cm ⁻¹ )	V (Cm ¹ ) 1373.4 1373.4 1373.4 1373.4 1375.4 1375.4 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3 1376.3	1942.9 1965.1 1987.3
*	**************************************	0.003
=	n   1223   1223   1223   1223   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233   1233	1.236 1.236 1.236
v (cm ⁻¹ )	V (Cm ⁻¹ ) 1316.5 1318.5 1319.4 1319.4 1329.2 1329.2 1329.2 1329.2 1339.7 1339.7 1339.2 1339.2 1349.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.3 1350.	1370.5 1371.5 1372.5
×	K 10002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.00	0.006
u	1237 1237 1237 1237 1237 1237 1237 1237	1.209 1.213 1.216
v (cm ⁻¹ )		1313.6 1314.6 1315.5
*		0.002
<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.236 1.236 1.237
v (cm ⁻¹ )	V (cm. 1) 1202.7 1204.6 1202.7 1204.6 1205.6 1206.6 1207.5 1208.5 1218.1 1218.1 1218.1 1218.1 1218.1 1218.1 1223.0 1223.0 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9 1224.9	1256.7 1257.7 1258.6
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<u> </u>	1089 1089 1089 1089 1109 1109 1110 1111 1111	1.232 1.232 1.233
v (cm ⁻¹ )	V (Cm ⁻¹ ) 728.7 728.7 739.5 734.5 732.5 734.5 732.5 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 740.2 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 744.1 7	1196.4 1200.8 1201.7
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II	47.58.53.19.50.50.54.50.78.50.85.50.80.50.80.50.80.14.50.41.07.80.80.10.07.41.70	
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11	1372 1373 1373 1373 1373 1373 1373 1373	
v (cm ⁻¹ )	\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac{1}{1}\$\frac	609.1 611.0 612.9

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×	0.000	900	0.002	000	0.007	0.012	0.018	0.097	0.071	0.025	0.011	0.00	98	38.0	200	0.0	0.003	0.003	0.003	0.003	90.0	36	0.02	0.002	0.002	0.002	0.002	900	0000	0.00	0.000	0000	38	000	0.000	000	38	000	0.000	88	86	0.000	0.00	98	0.08	0.000	0.00 0.00 0.00	
п	1.215	1.219	1.221	1.224	1.232	1.236	1.240	1.233	1.166	1.164	1.176	1.184	1.189	1.172	1 194	1.195	1.196	1.197	1.198	1.198	1.198	1.198	1.199	1.200	1.200	1.200	1.201	200	1.201	1.202	1.202	1.202	1.202	1.203	1.203	1.202	1.204	1.203	1.203	1.204	202	1.204	1.204	1.205	1.205	1.205	1.205	
v (cm ⁻¹ )	3688.6	3692.5	3694.4	3696.4	3700.2	3702.1	3706.0	3707.9		3711.8			3/1/5	37214	3723.4	3725.3	3727.2	3729.2	3731.1	3733.0	3/34.9	3/30.9	3740.7	3742.7	3744.6	3746.5	3748.4	37523	3754.2	3756.2	3758.1	3760.0	3761.9	3765.8	3767.7	3769.7	3773.5	3775.4	3777.4	3779.3	3783.2	3785.1	3787.0	3788.9	3792.8	3794.7	3796.7 3798.6	
×	0.000	300	0.000	966	0.000	0.00	0.00	0.003	0.007	0.013	0.053	0.026	10.0	300	2000	0.002	0.002	0.002	0.000	0.002	0.002	300	38	0.002	0.000	0.002	0.002		0000	0.000	0.000	0.000	36	0000	0.000	0.000		0000	0.000	0.00		0.000	0.000	300	0.001	0.001	0.001	0000
п	1.211	1.211	1.212	1.213	1.214	1.215	1.217	1.221	1.224	1.229	1.220	1.189	761.1	1.138	1200	1.202	1.203	1.203	45.5	25.2	207.1	207.1	202	1.207	1.207	1.207	1.206	1.200	1.207	1.207	1.208	1.208	1.208	1.208	1.209	1.209	2002	1.209	1.210	1.210	1.210	1.210	1.211	1.211	1.212	1.213	1.213	1.215
v (cm ⁻¹ )	3574.8	3578.7	3580.6	3582.6	3586.4	3588.3	3590.3	3594.1	3596.1	3598.0	3599.9	3601.8	3605.7	3607.6	3609.6	3611.5	3613.4	3615.3	3617.3	3619.2	3621.1	3623.1	3625.0	3628.8	3630.8	3632.7	3634.6	3638.5	3640.4	3642.3	3644.3	3646.2	3648.1	3652.0	3653.9	3655.9	36507	3661.6	3663.6	3665.5	3669.4	3671.3	3673.2	36/5.1	3679.0	3680.9	3682.9 3684.8	3686.7
k	0.000	800	0.000		0.000	000	900	0.00	0.000	0.00	0000	900	38	38		0.00	0.00	0.000	0.00	900	3 8	3 8	38	0000	0.00	0.00	000	38	0000	0.00	0.000	0.00	98	000	0.000	000	38	0000	0.000	000		0.000	000	900	0.00	0.000	0.000	0.00
п	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.189	1 189	1.189	1.190	1.191	1.191	1.192	1.193	1.193	1.194	1.194	1.196	1.196	1.197	1.197	1.198	1.199	1.200	1.202	1.201	207	120	1.204	1.205	1.206	1.207	1.207	1.208	1 209	1.209	1.209	1.209	1.208	1.209	1.209	1.210
v (cm ⁻¹ )	3083.0	3084.9	3085.8	3086.8	3088.7	3089.7	3090.7	3092.6	3093.6	3094.5	3095.5	3096.5	4.7908	3000.3	3110.9	3122.0	3133.1	3144.2	3155.3	3166.4	3100 6	2188.0	3210.7	3221.8	3232.9	3244.0	3255.1	3200.2	3288.4	3299.5	3321.2	3343.4	3365.5	3409.9	3432.1	3454.3	3498.6	3520.8	3543.0	3551.7	3555.5	3557.5	3559.4	3561.3	3565.2	3567.1	3569.0 3571.0	3572.9
×	0.002	0.007	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	35	900	900	0.003	0.003	0.002	0.002	0.002	0.00	90.0		0000	0.000	0.000	0.00	300	0000	0.000	0.000	0000	38	0000	0.000	000	38	0000	0.000	000	30	0.000	0.000	900	0.00	0.000	0.000	0.000
=	1.183	5 25	1.18		1.18	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.165	25.2	2	1.182	1.183	1.183	1.184	 45 :	1.18	1.184	1.165	1.185	1.185	1.185	1.185	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.18/	1.187	1.187	1.187	1.16/	1.187	1.187	1.187	1.187	1.187	1.187	1.188
v (cm ⁻¹ )	3026.0	3028.0	3028.9	3029.9	3031.8	3032.8	3033.8	3035.7	3036.7	3037.6	3038.6	3039.6	3040.5	3047.5	3043.4	3044.4	3045.3	3046.3	3047.3	3048.2	3049.2	3030.2	3052.1	3053.1	3054.0	3055.0	3055.9	3050.9	3058.8	3059.8	3060.8	3061.7	3062.7	3064.6	3065.6	3066.6	3068 5	3069.4	3070.4	3071.4	3073.3	3074.3	3075.2	3076.2	3078.1	3079.1	3080.1 3081.0	3082.0
<b>×</b>	0.000	300	0.00	900	0.000	0.00	0.0	0.001	0.001	0.00	0.00	0.00	3.5	300	0000	0.00	0.00	0.001	0.00	9.00	3.6	3.6	3.6	000	0.002	0.002	0.002	0.00	000	0.00	0.005	900	36	0.010	0.011	0.011	0.00	0000	0.008	0.00	300	0.006	0.005	9.0	90.0	0.003	0.003	0.003
=	1.184	1.184	1.184	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.180	1.186	1.186	1.186	1.186	1.186	1.187	1.187	1.167	1.16/	1.16	1.188	1.188	1.189	1.189	1.190	1.190	1.190	1.191	1.191	1.190	1.189	1.188	1.186	1.184	1.183	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182 1.183	1.183
v (cm ⁻¹ )	2969.1	2970.1	2972.0	2973.0	2974.9	2975.9	2976.9	2978.8	2979.8	2980.7	2981.7	2,867.0	2962.0	2985.5	2986.5	2987.5	2988.4	2989.4	2990.4	2991.3	2992.3	2004.2	2005	2996.1	2997.1	2998.1	2999.0	30000	3001.9	3002.9	3003.9	3004.8	3005.8	3007.7	3008.7	3009.7	3010.6	3012.5	3013.5	3014.5	3016.4	3017.4	3018.3	3019.3	3021.2	3022.2	3023.2 3024.1	3025.1
يد	0.005	0.003	0.003	0 0 0 0 0 0 0	0.004	9.9	2 2 3 4 4 4	0.004	0.003	0.001	0.002	0.007	0.00	000	0.00	0.001	0.001	0.001	0.002	0.002	0.007	0.00		0.00	0.001	0.000	0.00		0.000	0.000	0.000	0.00		0.000	0.000	0.00		0.000	0.000	000	000	0.000	0.000	96	0.000	0.000	0.000	0.001
l	1.060	1.08	1.068	1.073	1.075	1.077	1.0%	1.082	1.102	1.115	1.127	1.136	1.142	1.155	1.160	1.162	1.167	1.170	1.172	1.1/2	1.172	1.172	1.175	1.175	1.176	1.176	1.177	1.1/8	1.179	1.180	1.180	1.181	1.182	1.183	1.183	1.183	1.163	1.183	1.183	1.183	1.183	1.183	1.184		1.18	1.18	2 2 2 3 3 3	1.182
v (cm ⁻¹ )	2479.2	2483.0	2485.0	2486.9	2490.8	2492.7	2494.0	2498.5	2521.6	2543.8	2566.0	7288.7	2610.4	2654.7	2676.9	2699.1	2721.3	2743.5	2757.9	0.69/2	2701.7	2.191.2	2813.4	2824.5	2835.6	2846.7	2857.7	2879.0	2891.0	2902.1	2913.2	2924.3	2935.4	2950.8	2951.8	2952.7	2953.7	2955.6	2956.6	2957.6	2959.5	2960.5	2961.4	2962.4	2964.3	2965.3	2966.3 2967.2	2968.2
×	0.944	0.870	0.728	0.655	0.488	0.463	0.04	0.018	0.015	0.017	0.012	0.012	0.0	0.013	0.011	0.00	0.011	0.00	0.010	0.012	90.0	0.00	800	0.010	0.007	0.008	000	0.00	0.010	0.008	0.008	000	0.00	0.010	0.010	0.011	0.0	0.011	0.011	0.012	0.012	0.00	0.010	0.010	0.007	0.007	0.008	0.005
_ =	0.381	0.341	0.318	0.297	0.277	0.235	0.103	0.448	0.530	0.590	0.636	0.0	0.70	0.761	0.784	0.804	0.822	0.838	0.834	0.800	0.07	0.091	0.901	0.921	0.930	0.939	0.948	0.961	0.967	0.974	0.981	0.986	0.992	1.002	1.006	1.010	101	1.022	1.025	1.028	1.032	1.036	1.039	5.5	1.047	1.050	1.051	1.058
v (cm ⁻¹ )	2365.4	2369.2	2371.2	2375.0	2377.0	2378.9	2382.7	2384.7	2386.6	2388.5	2390.5	2392.4	2396.2	2398.2	2400.1	2402.0	2404.0	2405.9	2407.8	2409.7	2411.7	2415.0	2417.5	2419.4	2421.3	2423.2	2425.2	2429.0	2431.0	2432.9	2434.8	2436.8	2440.6	2442.5	2444.5	2446.4	24503	2452.2	2454.1	2456.0	2459.9	2461.8	2463.8	2462.7	2469.5	2471.5	2473.4	2477.3
×	0.004	0.00	90.0	900	0.00	0.006	0.00	0.006	0.005	0.00	0.015	670.0	0.033	0.078	0.025	0.00	0.007	0.00	0.00	96	900	0.00	0000	0.007	0.007	0.007	0.008	0000	0.00	0.013	0.018	0.035	0.116	0.329	0.382	0.446	0.698	1.008	1.510	2.038	2.325	2.138	1.934	1.743	1.440	1.318	1.214	1.029
=	1.423	1.433	1.437	<u>1</u> 4.	1.452	1.458	1.403	1.481	1.492	1.504	1.519	1.334	1.573	1.455	1.470	1.496	1.518	1.535	1.550	200	1.502	1,530	1.636	1.656	1.680	1.706	1.734	1.806	1.851	1.906	1.976	2.071	2.237	2.254	2.297	2.372	2.627	2.769	2.766	2.493	1.494	1.131	0.895	0.741	0.567	0.514	0.470	0.408
v (cm ⁻¹ )	2251.6	2255.4	2257.4	2261.2	2263.1	2265.1	2268.9	2270.9	2272.8	2274.7	2276.6	22/8.0	2280.3	2284.4	2286.3	2288.2	2290.2	2292.1	0.594.0	2293.9	22008	23017	2303.7	2305.6	2307.5	2309.4	2311.4	2315.2	2317.2	2319.1	2321.0	2322.9	2326.8	2328.7	2330.7	2332.6	2336.4	2338.4	2340.3	2342.2	2346.1	2348.0	2349.9	2353.8	2355.7	2357.7	2359.6	2363.5

TABLE 11B  $CO_2:CH_4 = 20:1 \text{ AT } 20 \text{ K}$ 

<u>_</u>	0.002 0.005 0.005	200	505	0.003	500.	88	90.00	200.	0.00	900	0.003	0.003	0.003	90.0	0.003	93	0.00	0.003	8,89	0.003	20.0	20.00 4 40 20.00	88	<u> </u>	90.0	8	90.0	9.00	8	9.00	98.8	20.0	4 4 5	2 2 2	0.006
    =	279 0 284 0 287 0					321	321	325		_	328		332			339	34.5	45.5		349	352	.355 .355	359	361	363		372	375 0	380	386.		. ** 1	9.65		.411 (
n-1)	9.5 1 1.7 1 3.9 1	8.2	0.4 2.6	1.3 1 3.2 1	5.1	9.0	6.0.9	. 8.4	6.7 8.6	0.6	2.5 1	6.3	2178.3 1 2180.2 1	2.1	2184.1	2187.9	191.8	193.7	.5.6 7.6	9.5	3.3	5.3 17.2	9.1	2213.0	2214.9 1	2218.8	2.6	2224.6 1	4.5	2230.4 I 2232.3 1	2.5	2238.1	2241.9	2245.8	2247.7 1 2249.6 1
	2009.5 2031.7 2053.9	288	212	215	215	215	2160	216	2166. 2168.	2170.	2172.								2195.6	2199.	2203.				22	125					223	188		727	224
<u> </u>	1			0.002			0.00	0.003	0.003		0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00	0.0 0.0 4.00		0.00	0.0	0.00	0.0	0.00	000	0.00	0.00		0.00		0.004
=	1.236 1.236 1.236	1.236	1.236	1.237	1.238	1.237	1.235	1.235	1.236	1.236	1.237	1.237	1.237	1.237	1.237	1.237	1.23/	1.239	1.239	1.241	1.242	1.243	1.243	1.243	1.243	1.245	1.246	1.245	1.251	1.255	1.257	1.262	1.265	1.268	1.273 1.275
v (cm ⁻¹ )	1373.4 1374.4 1375.3	1376.3	1378.2	1380.2	1382.1	1384.0	1385.0	1386.9	1387.9	1389.8	1390.8	1392.7	1393.7	1395.6	1396.6	1398.5	1399.5	1422.1	1433.2	1455.4	1477.6	1488.7 1499.8	1521.5	1565.8	1588.0	1632.4	1624.6	1698.9	1743.3	1787.7	1809.8	1854.2	1898.6	1920.8	1965.1 1987.3
	0.002 0.002 0.002	0.002	0.002	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.00	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.00	0.002	0.007	0.003	900	0.003	0.003	0.00	0.003	0.003	0.003
ء	1.219 1.221 1.222	1.224	1.226	1.227	1.229	1.230	1.230	1.231	1.231	1.232	1.232	1.232	1.233	1.233	1.233	1.233	1.233	1.234	1.234	1.234	1.234	1.234	1.234	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.236	1.236	1.236	1.236
v (cm ⁻¹ )	1316.5 1317.5 1318.4	1320.4	1321.3 1322.3	1323.3 1324.2	1325.2	1327.1	1328.1	1330.0	1331.0	1332.9	1333.9 1334.8	1335.8	1336.8	1338.7	1339.7	1341.6	1342.6	1344.5	1345.4 1346.4	1347.4	1349.3	1350.3 1351.2	1352.2	1354.1	1355.1	1357.0	1358.0	1359.9	1361.8	1362.8 1363.8	1364.7	1366.7	1368.6	1369.6	1371.5 1372.5
II──	0.001	0.001	0.00	0.001	0.001	0.001	0.00	0.001	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.005	0.007	0.016	0.031	0.028	0.024	0.028	0.030	0.039	0.048	0.031	0.003	0.004
ء	1.237 1.237 1.237												1.239	1.240	1.240	1.242	1.242	1.243	1.243	1.245	1.247	1.248 1.250			1.258			1.243	1.242	1.242	1.237	1.210	202	1.210	1.214
v (cm ⁻¹ )	1259.6 1260.6 1261.5	1262.5	1264.4 1265.4	1266.4 1267.3	1268.3	1270.2	1271.2	1273.1	1274.1 1275.0	1276.0	1277.0	1278.9	1279.9	1281.8	1282.8	1284.7	1285.6 1286.6	1287.6	1288.5 1289.5	1290.5	1292.4	1293.4 1294.3	1295.3	1297.2	1298.2	1300.1	1302.0	1303.0	1304.9	1306.9	1307.8	1309.8	1311.7	1312.7	1314.6 1315.5
3	888				0.00	000	000	0.00	0000	0.000	0.00	0.00	000	0.00	000	000	000	0.00	000	0.00	000	000	0.00	0.00	000	0.00	0000	0.00	000	900	000	000	308	0.00	0.000
-	1.232 1.232 1.232	1.232	1.232 1.232	1.232	1.233	1.233	1.233	1.233	1.233	1.233	1.233	1.233	1.233	1.233	1.234	1.234	1.234	1.234	1.234	1.234	1.235	1.235	1.235	1.235	,		1.235	1.235	1.235	1.235	1.236	1.236	1.236	1.236	1.236 1.236
v (cm ⁻¹ )	1202.7 1203.7 1204.6	1205.6	1207.5 1208.5	1209.5 1210.4	1211.4	1213.3	1214.3	1216.2	1217.2 1218.1	1219.1	1220.1 1221.0	1222.0	1223.0	1224.9	1225.9	1227.8	1228.7	1230.7	1231.6 1232.6	1233.6	1235.5	1236.5 1237.4	1238.4	1240.3	1241.3	1243.2	1244.2	1246.1	1248.0	1249.0 1250.0	1250.9	1252.9	1254.8	1256.7	1257.7 1258.6
-	0.015 0.015 0.015	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.005	0.007	0.015	0.015	0.007	0.007	0.007	0.015	0.015	0.007	0.007	0.007	0.007	0.007	0.007	0.006	9000	0.006	0.000	9000	0.000	0.005	0000	000	800	0.000	0.000
ll .	1.083 1.093 1.095														1.150	1.153	1.156																1.230		
v (cm ⁻¹ )	728.7 730.6 732.5	736.4	738.3 740.2	742.2 744.1	746.0	749.9	751.8	755.7	757.6 759.5	761.5	763.4 765.3	767.2	769.2	773.0	775.0	778.8	782.7	784.6	786.5 788.5	790.4	794.3	796.2 798.1	821.3	865.6	887.8 910.0	932.2	976.5 976.5	1020.9	1043.1	1087.4	1109.6	1152.1	1174.3	1196.4	1200.8 1201.7
_	0.009	0.016	0.005	0.015	0.014	0.019	0.057	0.035	0.026	0.026	0.038	0.864	<u>2</u> 5	1.596	2.241	1.627	1.206	0.986	0.834	0.546	0.028	0.027	0.026	0.015	0.014	0.015	0.015	0.015	0.015	0.015	0.006	0.015	0.015	0.015	0.006
u	222																																		
k v (cm-1) n k	1																																		724.8 726.7
k v	===																																	0.009	000
	1339 0. 1340 0. 331 0.																																433 0.0		
v (cm ⁻¹ ) n																										. — .									
>	L																																		

×	0.000	000	0.002	0.002	0.005	0.008	0.031	0.104	0.080	0.020	0.01	0.00	900.0	0.00	0.004	0.0	90.0	0.003	3.6	0.00	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.002	900	300	0.000	0.000	38	0000	0.000		0.000	0000	98	0.00	0000		0.000	0.00	900	0.000	
u	1.215	1.217	1.220	1.225	1.230	1.234	1.256	1.240	1.163	1.160	1.1/5	1.188	1.191	1.192	1.194	1.195	1.195	1.196	1 108	1.198	1.198	1.199	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.201	1.202	1.202	1.202	1.203	1.202	1.203	1.203	1.204	25.2	1.204	1.204	1.205	1.204	1.204	1.20 204	1.205	
v (cm ⁻¹ )	3688.6	3692.5	3694.4	3698.3	3700.2	3702.1	3706.0	3707.9	3709.9	3/11.8	37156	3717.6	3719.5	3721.4	3723.4	3725.3	3727.2	3729.2	3733.0	3734.9	3736.9	3738.8	3740.7	3742.7	3744.6	3748.4	3750.4	3752.3	3754.2	3758.1	3760.0	3761.9	3765.9	3767.7	3769.7	3773.5	3775.4	3777.4	3781.2	3783.2	3785.1	3788.9	3790.9	3792.8	3796.7	3798.6	
×	0.000	0000	0.000	0.00	0.001	900	0.00	0.003	0.005	0.013	0.038	0.027	0.006	0.003	0.002	0.002	0.002	0.002	0.00	0000	0000	0.000	0.000	0.002	0.00	0.002	0.000	0.000	0000	0000	0.000	0.000	000	0.000	0.000		0.000	0.000		0.000	0.000	0000	0.000	0.000	0.00	0.001	
u	1.210	1.210	1.210	1.212	1.212	1.214	1.218	1.220	1.224	1.232	1 186	1.18	1.195	1.197	1.199	1.201	1.202	1.203	1 203	1.205	1.205	1.205	1.205	1.206	1.207	1.206	1.205	1.206	1.207	1.207	1.207	1.208	1.208	1.208	1.209	202	1.209	1.210	1.210	1.209	1.210	1.211	1.211	1.211	1.213	1.214	
v (cm ⁻¹ )	3574.8	3578.7	3580.6	3582.6 3584.5	3586.4	3588.3	3592.2	3594.1	3596.1	3598.0	3601.8	3603.8	3605.7	3607.6	3609.6	3611.5	3613.4	3615.3	3610.2	3621.1	3623.1	3625.0	3626.9	3628.8	3630.8	3634.6	3636.6	3638.5	3640.4	36453	3646.2	3648.1	3652.0	3653.9	3655.9	36597.8	3661.6	3663.6	3667.4	3669.4	3671.3	3675.1	3677.1	3679.0	3682.9	3684.8	
×	0.000	0000	0.000	0.00	0.000	000	000	0.000	0.000	900	300	000	000.0	0.000	0.000	0.000	0.00	0.000		0000	0000	0.000	0.000	0.000		0000	0.000	0.000	000	900	0.000	0.000	98	0.00	0.00		0.00	0.000		0.000	0.000	000	0.000	0.00	90.0	000	
п	1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.189	1.190	1.191	1 102	1.193	1.193	1.194	1.195	1.195	1.196	1.197	1.198	1.198	1.199	1.200	1.202	1.203	1.203	1.204	1.205	1.206	1.207	1.208	1.209	1.209	1.209	1.208	1.210	1.209	1.209	1.209	
v (cm ⁻¹ )	3083.0	3083.9	3085.8	3087.8	3088.7	3089.7	3091.6	3092.6	3093.6	3094.5	3006.5	3097.4	3098.4	3099.3	3110.9	3122.0	3133.1	3144.2	3166.4	3177.5	3188.6	3199.7	3210.7	3221.8	3232.9	3255.1	3266.2	3277.3	3288.4	3321.2	3343.4	3365.5	3387.7	3432.1	3454.3	34/0.5	3520.8	3543.0	3553.6	3555.5	3557.5	3561.3	3563.3	3565.2	3569.0	3571.0	
ĸ	0.002	0.007	0.002	0.00	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002		0000	0.000	0.000	0.000	0.000	98	0000	0.000	0.000	0000	0000	0.000	0.000	900	0.000	0.000		0.000	0.000		0.000	0.000	0000	0.000	0.000	0.00	0.000	
u .	1.182	1.183	1.183	1.183	1.184		1.18	1.184	<u> </u>	25.5	1.184	1.184	1.184	1.183	1.183	1.183	1.182	1.182	1 183	1.183	1.183	1.184	1.184	28.5	1.184	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.187	1.187	1.187	
v (cm ⁻¹ )	3026.0	3028.0	3028.9	3030.9	3031.8	3032.8	3034.7	3035.7	3036.7	3037.6	3030.6	3040.5	3041.5	3042.4	3043.4	3044.4	3045.3	3046.3	3048.2	3049.2	3050.2	3051.1	3052.1	3053.1	3054.0	3055.9	3056.9	3057.9	3058.8	3060.8	3061.7	3062.7	3063.7	3065.6	3066.6	3068.5	3069.4	3070.4	30/1.4	3073.3	3074.3	3076.2	3077.2	3078.1	3080.1	3081.0	
k	0.000	0.00	0.000	0.08	0.000		0.00	0.000	0.00	98	38	000	0.00	0.00	_	0.00		900	38	_	_	0.000	0.000	0.00	9.0	0.00	0.002	0.003	0.003	900	0.006	0.007	90.0	0.010	0.011	0.010	0.007	0.007	989	0.00	90.0	9.0	0.003	0.003	-	0.002	1
	1.183	1.183	1.183	1.183	1.183	1.183	1.184	1.184	1.184	1.184	1.164	1.184	1.184	1.185	1.185	1.185	1.185	1.185	1.186	1.186	1.186	1.186	1.186	1.187	1.187	1.188	1.188	1.189	1.189	1.189	1.189	1.189	1.188	1.186	1.184	1.183	1.181	1.181	1.181	1.180	1.180	1.180	1.181	1.181	1.181	1.182	
v (cm ⁻¹	2969.1	2970.1	2972.0	2974.0	2974.9	2975.9	2977.8	2978.8	2979.8	2980.7	7982 6	2983.6	2984.6	2985.5	2986.5	2987.5	2988.4	2989.4	2001 3	2992.3	2993.3	2994.2	2995.2	2996.1	2997.1	2999.0	3000.0	3001.0	3001.9	3003.9	3004.8	3005.8	3006.8	3008.7	3009.7	3010.6	3012.5	3013.5	3014.5	3016.4	3017.4	3018.3	3020.3	3021.2	3023.2	3024.1	
*	0.005	0.00	9000	0.003	0.00	0 0 0 0 0 0 0 0 0 0 0 0 0	90.0	0.00	0.003	90.0	0.002	0.003	0.003	0.003	0.000	0.001	0.001	0.00	0.00	0.002	0.001	0.001	0.001	0.001	0.00	0000	0.000	0.000	9000	900	0.000	0.000	900	0.000	0.000	900	0.000	0.000		0.000	0.000		0.00	0.000	900	0.000	
=	1.059	1.065	1.067	1.070	1.074	1070	1.080	1.082	1.102	1.115	1.127	1.143	1.149	1.153	1.157	1.162	1.166	1.170	1 171	1.172	1.172	1.173	1.174	1.174	1.174	1.176	1.176	1.177	1.178	1.179	1.180	1.180	1.181	1.181	1.181	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.183	1.183	
v (cm ⁻¹ )	2479.2	2483.0	2485.0	2488.8	2490.8	2492.7	2496.6	2498.5	2521.6	2543.8	2588.2	2610.4	2632.5	2654.7	2676.9	2699.1	2721.3	2743.5	2769.0	2780.1	2791.2	2802.3	2813.4	2824.5	2835.6	2857.7	2868.8	2879.9	2891.0	2913.2	2924.3	2935.4	2946.5	2951.8	2952.7	2953.7	2955.6	2956.6	295/.6	2959.5	2960.5	2962.4	2963.4	2964.3	2966.3	2967.2	
				0.575		0.462												0.012						0.010		0.00	0.00	0.010	0.010	0.011	0.00	0.00	0.00	0.010	0.010	0.01	0.011	0.011	0.012	0.012	0.012	0.00	0.010	0.010	) 0.08	0.008	
	0.366	0.327	0.309	0.269	0.272	0.243	0.293	0.431	0.516	0.577	0.027	0.702	0.731	0.756	0.780	0.800	0.820	0.835	0.865	0.877	0.890	0.600	0.909	0.920	0.929	0.946	0.954	0.961	0.967	0.979	0.983	0.990	1.09	1.005	1.010	1.014	1.021	1.025	1.028	1.034	1.036	1.038	9.	1.047	1.052	1.055	
v (cm ⁻¹ )	2365.4	2369.2	2371.2	2375.0	2377.0	23/8.9	2382.7	2384.7	2386.6	2388.5	2392.3	2394.3	2396.2	2398.2	2400.1	2402.0	2404.0	2405.9	2409.7	2411.7	2413.6	2415.5	2417.5	2419.4	2421.3	2425.2	2427.1	2429.0	2431.0	2434.8	2436.8	2438.7	2440.6	244.5	2446.4	2448.3	2452.2	2454.1	2456.0	2459.9	2461.8	2465.7	2467.6	2469.5	2473.4	2475.3	
×	90.0	9 9	90.0	0.00	90.0	90.0			0.005	0.00	0.01	0.049	0.128	0.081	0.025	0.010	0.007	0.00	9000	0.007	0.00	0.006	0.007	0.007	0.000		0.008					0.064	0.135	0.232	0.286	0.372	0.842	1.386	2.019	2.501	2.320	1.856	1.661	1.501	1.249	1.147	
u (	1.419					1.454 1.450	. —		<u> </u>				-	_	_			1.527	-		-	_					1.743						2.1.5 4.52		2.387				2.730					0.542			١
v (cm ⁻¹ )	2251.6	2255.4	2257.4	2261.2	2263.1	2265.1	2268.9	2270.9	2272.8	22/4./	2278.6	2280.5	2282.4	2284.4	2286.3	2288.2	2290.2	2292.1	2205.0	2297.9	2299.8	2301.7	2303.7	2305.6	2307.5	2311.4	2313.3	2315.2	231/12	2321.0	2322.9	2324.9	2326.8	2330.7	2332.6	2334.5	2338.4	2340.3	2344.2	2346.1	2348.0	2351.9	2353.8	2355.7	2359.6	2361.5	

د	4	0.005	0.002	000	0.003	0.003	0.00		0.003	0.005	0.005	0.003	0.005	0.003	0.00	9000	0.00	9000	0.003	0.00	0.003	98	0.003	3 6			0.00	0.003	0.003	0.00	0.00	0.006	9.00	3 5	90.0	0.00	0.004	0.00	98	38	900	0.006	0.00	9.00	95.5	90.0	0.00	90.0	9.9	0.00	900	2
-		1.282	1.286	1 298	1.306	1.313	1.319	1.320	1.322	1.323	1.324	1.326	1.326	1.326	1.329	1.329	1.329	1.331	1.332	1.333	1.333	1.330	1.336	1.330	1.339	1 342	1.344	1.346	1.348	1.350	1.350	1.353	1.353	1.357	1 350	1.361	1.363	1.366	1.368	1.309	1.374	1.376	1.379	1.382	1.380	1.390	1.393	1.396	1.403	1.406	1.410	:
(cm ⁻¹ )		2031.7	53.9	98.2	20.4	2142.6	51.3	55.1	2157.1	2159.0	2160.9	2162.8	2164.8	2166.7	2168.6	2170.6	2172.5	74.4	76.3	2178.3	20.7	17877	2184.1	0.0017	2187.9	101.8	193.7	95.6	2197.6	199.5	2201.4	03.3	05.3	7.70	1.60	13.0	14.9	16.9	8.8	20.7	24.6	26.5	28.4	30.4	32.3 34.2	36.1	38.1	0.0	43.9	2245.8	47.7 40.6	?
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1		26	. ~		217	212	2.5	_	_			_	~	~	_	_	2	_		2 2	7 7	212	0.0					_		_		_		_	_		_	_	_	_	_					_					-
د	ľ		0.00			0.00		_		-				0.00				0.00	0.00	0.00	0.00	0.00	0.00				0.00	_					0.0	90.0					20.0		_	0.000	0.000	0.00	9.0	0.0		0.0	0.0	900	0.0	;
-	:   ?	1.234	1.234	1.235	1.235	1.235	1.235	1 236	1.237	1.236	1.234	1.233	1.234	1.234	1.234	1.235	1.235	1.235	1.235	1.235	5551	1.235	1.235	1.230	1 236	1 237	1.237	1.238	1.238	1.239	1.240	1.240	1.241	1.241	1 243	1.241	1.242	1.245	1.248	1 248	1.248	1.250	1.253	1.254	256	1.257	1.260	1.263	1.265	1.267	1.271	•
v (cm-1)		1374.4	1375.3	1377.3	1378.2	1379.2	1380.2	1382 1	1383.1	1384.0	1385.0	1386.0	1386.9	1387.9	1388.8	1389.8	1390.8	1391.7	1392.7	1393.7	1394.0	1395.6	1390.6	1300.5	1300.5	14110	1422.1	1433.2	1444.3	1455.4	1466.5	1477.6	1488.7	1521.5	1543.6	1565.8	1588.0	1610.2	1632.4	1676.7	1698.9	1721.1	1743.3	1765.5	18/./	1832.0	1854.2	1876.4	1920.8	1942.9	1965.1	:
لا	18	0.002	0.002	0.002	0.002	0.002	0.002	2000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	30.0	0.00	0.00	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	000	0.003	0.003	0.003	0.003	0.00	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	,
ء	:   :	1.219	1.221	1.223	1.224	1.225	1.226	1 227	1.228	1.228	1.229	1.229	1.229	1.229	1.230	1.230	1.230	1.230	1.230	1.231	1.231	1.231	1.231	1.23.1	1 232	1 232	1.232	1.232	1.233	1.232	1.232	1.233	1.233	1.233	1 233	1.233	1.233	1.233	1.233	1 233	1.233	1.233	1.233	1.233	1 233	1.233	1.234	1.234	1.234	1.234	1.234	
(cm-1)		1317.5	18.4	20.4	21.3	22.3	23.3	25.2	26.2	327.1	128.1	29.1	330.0	331.0	331.9	332.9	333.9	334.8	335.8	36.8	331.1	338./	339.7	341.6	41.0	343.5	344.5	345.4	346.4	347.4	348.3	349.3	350.3	2.1.2	353.2	54.1	355.1	56.1	357.0	358.0	359.9	6.09	361.8	362.8	364.7	365.7	7.99	367.6	9.69	370.5	5.17.5	;
^^	1			_	_			_		_	_	_	_	_	_	_	_	_	_						-				_	_	_	_				-	_									_						-
۷	18	<i>i</i>	0.00	0	_	_	0.002		0			_	-		0.00	0.00	0	0.00	0.003	0.003	0.007	0.007	0.007	0.00	0.007	0.00	0.00	000	0.003	0.003	0.003	0.003	0.0	0.000		0.012	0.01	0.02	0.031	0.0	0.02	0.05	0.02	0.02	0.033	0.049	0.046	0.028	0.00	0.00	0.003	;
ء	1 200	1.235	1.235	1.235	1.235	1.235	1.235	1 236	1.236	1.236	1.236	1.237	1.237	1.237	1.238	1.238	1.237	1.237	1.237	1.237	1.238	1.238	1.239	1.239	1.240	1 240	1.241	1 242	1.242	1.243	1.244	1.245	1.246	1.248	1 252	1.254	1.256	1.254	1.248	1 240	1.240	1.240	1.239	1.239	1.238	1.225	1.207	1.199	1.205	1.209	1.213	
v (cm-1)		1260.6	1261.5	1263.5	1264.4	1265.4	1266.4	12683	1269.3	1270.2	1271.2	1272.1	1273.1	1274.1	1275.0	1276.0	1277.0	1277.9	1278.9	1279.9	1280.8	1281.8	1282.8	1,263.7	1285.6	1286.6	1287.6	1288.5	1289.5	1290.5	1291.4	1292.4	1293.4	1294.3	1296.3	1297.2	1298.2	1299.2	1300.1	1307.0	1303.0	1304.0	1304.9	1305.9	1306.9	1308.8	1309.8	1310.7	1312.7	1313.6	1314.6	1
<u>_</u>	100	0.000	00.0	0000	0.00	0.00	38		000	0.00	0.000	0.000	0.000	0.000	0.00	000	000	00.0	0.00	0.00	3.5	3.6	3.6	3.6	900	00.0	0.00	0.00	0.00	0.001	0.00	0.00	3.6	3.6	0.00	0.001	0.001	0.00	3.5	8.5	0.00	0.001	0.00	3 8	0.00	0.00	0.00	9.0	0.00	0.00	0.001	
ء		1.230	1.230	1.230	1.230	1.230	1.231	1 230	1.231	1.230	1.231	1.231	1.231	1.232	1.232	1.232	1.231	1.231	1.231	1.232	1.232	1.231	1.232	1 232	1.232	1.232	1.232	1.232	1.232	1.231	1.232	1.233	1.233	1.233	1.233	1.233	1.233	1.233	1.233	1 233	1.233	1.233	1.233	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234	!
v (cm ⁻¹ )	1,000	1203.7	1204.6	1206.6	1207.5	1208.5	209.5	1211.4	1212.3	1213.3	1214.3	1215.2	1216.2	1217.2	1218.1	1219.1	1220.1	1221.0	1222.0	1223.0	1223.9	1224.9	1225.9	1222.8	1228.7	1229.7	1230.7	1231.6	1232.6	1233.6	1234.5	1235.5	1230.5	1237.4	1239.4	1240.3	1241.3	1242.2	1243.2	1245 1	1246.1	1247.1	1248.0	1249.0	1250.9	1251.9	1252.9	1253.8	1255.8	1256.7	1258.6	
	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.007	0.015	0.015	0.007	0.015	0.007	0.015	0.015	0.00	7000	2000	0.00	0.015	0.014	0.007	0.014	0.014	0.007	0.014	0.007	0.00	0.014	0.000	0.000	0.006	0.006	0.00	9000	0.006	0.006	0.005	30.0	0000	0.000	0000	0000	0.000	0.000	000.0	
-	200	1.089	1.093	001	1.104	1.107	1.110	1115	1.117	1.117	1.125	1.127	1.129	1.136	1.134	1.137	1.138	1.140	1.142	1.142	1.145	1.14/	1.140	150	1.155	1.152	1.151	1.156	1.156	1.158	1.159	92	1.103	1 2	1.186	1.193	1.198	1.202	210	212	1.213	1.214	218	223	1.221	1.226	1.227	228	1.229	1.230		
v (cm-1)	7007	730.6	732.5	736.4	738.3	740.2	742.2	746.0	748.0	749.9	751.8	753.7	755.7	757.6	759.5	761.5	763.4	765.3	767.2	769.2	772.0	0.577	0.577	778.8	780.7	782.7	784.6	786.5	788.5	790.4	792.3	794.3	7067	821.3	843.4	865.6	887.8	910.0	952.2	976.5	2866	1020.9	1043.1	1002.3	1109.6	1131.8	1152.1	1163.2	1185.3	1196.4	1201.7	
۷	710	600.	90.0	010	3.015	800.	210.0	0.014	0.013	610.0	750.0	.063	0.035	0.026	0.022	0.026	0.039	7.102	0.801	968.1	110.1	0/00	000	879	395	1.207	900.	.847	149.	.562	0.075	0.028	770.0	020	0.013	0.014	0.014	0.014	210.0	2015	510.	0.015	510.0	210.	0.015	510.0	510.0	0000	0.015	0.015	0.015	
11	1																																																	1.068		
v (cm-1)	0713																																																	722.9		
II—	┿	0.032	0.032	022	0.032	0.021	0.021	0.021	110.0	0.031	0.021	0.021	0.021	.031	0.011	110.	1011	0.020	110.0	070.0	1000	020	020	020	010	020	0700	010.0	0700	010.0	010	010.0	010	010	010	0.028	610.0	010	010	010	010.	0.018	010	010	600.	600.	600.	2003	600.	0.017	- 210	
ii .	1	1.355																																																1.451 0		
v (cm ⁻¹ )	501 1	503.0	504.9	508.8	510.7	512.6	516.5	518.4	520.3	522.3	524.2	526.1	528.1	530.0	531.9	533.8	535.8	537.7	539.6	241.0	545.0	547.3	5493	551.2	553.1	555.1	557.0	558.9	560.8	562.8	564.7	366.6	570.5	572.4	574.4	576.3	578.2	580.1	584.0	585.9	587.9	589.8	591.7	505.6	597.5	599.4	601.4	605.3	607.1	609.1	612.9	

ж.	0.000000000000000000000000000000000000	7.00
_ c	1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274 1.274	1.651
v (cm ⁻¹ )	3688.6 3690.6 3690.6 3690.6 3690.6 3709.0 3709.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0 3706.0	0,70,0
×	0.000000000000000000000000000000000000	0.001
F	1221 1221 1222 1223 1233 1233 1233 1233	1.214
v (cm ⁻¹ )		3686.7
*		0000
=	1188 1188 1188 1188 1188 1188 1188 118	1.210
v (cm ⁻¹ )	3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.79 3088.7	3572.9
<b>×</b>	00000000000000000000000000000000000000	0000
=	2	1.187
v (cm ⁻¹ )		3082.0
<b>×</b>	0.000000000000000000000000000000000000	0.003
=	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.183
v (cm ⁻¹ )		3025.1
*	00000000000000000000000000000000000000	0.001
=		1.182
v (cm ⁻¹ )	24494.6 2488.3 24494.6 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2488.3 2588.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3 2688.3	2968.2
ĸ		
_ =	0.34 0.34 0.34 0.34 0.25 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26	1.054
v (cm ⁻¹ )	2330 2330 2330 2330 2330 2330 2330 2330	2477.3
×		- 1
=	1	0.382
v (cm ⁻¹ )	22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.5 22553.	2363.5

×	0.005 0.005 0.005 0.005	0.003 0.003 0.003	0.003	0.003	0000	0000	0000	0.003	0.003	0.003	0.003	0.00	00.00	9.9	20.00	90.0	988	988	0.0 2000 44	9.0.0	900	0.006
=	1.275 1.280 1.284 1.288 1.288	1.303 1.312 1.316	1.317 1.318 1.319	1.320	1.323	1.326	1.330	1.333	1.336	1.341	1.343	1.348 1.350	1.351	1.357	1.361	1.367	1.372	1.379	1.385	1.390	1.400	1.407
v (cm ⁻¹ )	2009.5 2031.7 2053.9 2076.0 2098.2	2120.4 2142.6 2151.3	2153.2 2155.1 2157.1	2159.0	2164.8 2166.7 2166.7	2170.6	2176.3	2182.1 2184.1	2186.0 2187.9 2189.8	2191.8	2195.6	2201.4 2203.3	2205.3	2211.1 2213.0	2214.9 2216.9	2220.7	2224.6	2230.4 2232.3	2234.2 2236.1	2238.1	2243.9	2247.7
×	0.005 0.005 0.004 0.005	0.005 0.005 0.005	0.005	0.007	0.005	4 4 4	0.000	0.005	0.005	0.004	0.005	2000	2000	900	2000	9 6	900	900	0.0 0.00 4.4	9000	90.0	900
=	1,235 1,235 1,235 1,235 1,235 1,235	1.235 1.235 1.235	1.235 1.236 1.236	1.235	1.235	1.235	1.236	1.236	1.236	1.237	1.238	1.240	124.	1.243	1.243	1.246	1.250	1.251	1.255	1.258	1264	1.269
v (cm ⁻¹ )	1373.4 1374.4 1375.3 1376.3 1377.3	1378.2 1379.2 1380.2	1381.1 1382.1 1383.1	1384.0	1386.9	1389.8	1392.7	1395.6 1396.6 1396.6	1397.5 1398.5 1399.5	1411.0	1433.2	1455.4 1466.5 1477.6	1488.7	1543.6 1565.8	1588.0 1610.2 1632.4	1654.6	1698.9	1765.5	1809.8 1832.0	1854.2	1920.8	1965.1
-×	0.005 0.005 0.004 0.004	0.00 0.00 4.42 4.42	0.0.0 0.00 4.42 4.42	0.00 4.00 4.00 5.00 5.00 5.00 5.00 5.00	9000	0.00 4.00 5.00 5.00 5.00 5.00 5.00 5.00	0.003	0.005	0.005	0.00	0.005	0.005	0.005	0.005	0.005	0.000	0.005	0.005	0.005	0.003	0.005	0.005
=	1,220 1,221 1,222 1,223 1,223	1.225 1.226 1.227	1.228 1.229 1.229	1.229	1.230	1231	1231	1.232	1.232	1.232	1.233	1.233	1.233	1.233	1.233	1.234	1.234	1.234	1.234	1.234	1.234	1.235
v (cm ⁻¹ )	1316.5 1317.5 1318.4 1319.4 1320.4	1321.3 1322.3 1323.3	1324.2 1325.2 1326.2	1327.1	1330.0	1332.9	1335.8	1338.7 1338.7 1339.7	1340.6 1341.6 1342.6	1343.5	1345.4	1348.3 1348.3 1349.3	1350.3	1353.2 1354.1	1355.1 1356.1 1357.0	1358.0	1359.9	1362.8	1364.7	1366.7	1369.6	1371.5
<u>×</u>	0.005 0.005 0.005 0.005	0.005 0.005 0.005	0.005 0.005 0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.012	0.020	0.031	0.028	0.030	0.039	0.037	0.010	0.007
c	1,235 1,235 1,235 1,236 1,236	1.236 1.236 1.236	1.236 1.236 1.236	1.237	1.237	1.238	1.238	1.239	1.239	1241	1.242	1245	1.246	1.251	1.253	1.241	1.239	1.236	1.232	1.208	1.211	1.217
v (cm ⁻¹ )	1259.6 1260.6 1261.5 1262.5 1262.5	1264.4 1265.4 1266.4	1267.3 1268.3 1269.3	1270.2	1273.1	1276.0	1278.9	1281.8 1282.8	1283.7 1284.7 1285.6	1286.6	1288.5	1291.4 1292.4	1293.4	1296.3 1297.2	1298.2 1299.2 1300 1	1301.1	1303.0	1305.9	1307.8	1309.8	1312.7	1314.6
*	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 4.00 4.40	9000	0000	0.005	0.00.0	0.005	0.005	0.005	0.00 0.00 4.00 0.00	0.005	0.005	0.005	0.005	0.005	0.00	0.005	0.005	0.00	0.005
e e	1.231 1.231 1.231 1.231 1.231	1.231 1.231 1.232	1.231 1.231 1.232	1.231	1232	1232	1.232	1.232	1,233	1.233	1.233	1.233	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.235	1.235
v (cm ⁻¹ )	1202.7 1203.7 1204.6 1205.6 1206.6	1207.5 1208.5 1209.5	1210.4 1211.4 1212.3	1213.3	1216.2	1219.1	1222.0	1224.9 1225.9	1226.8	1229.7	1231.6	1234.5 1235.5 1235.5	1236.5	1239.4 1240.3	1241.3	1244.2	1246.1	1249.0 1249.0 1250.0	1250.9 1251.9	1252.9	1255.8	1258.6
ᆇ	0.006 0.006 0.006 0.006	0.006 0.007 0.007	0.007 0.007 0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.00	0.006	0.00	0.00	0.005	0.005	0.005
_ c	1.081 1.087 1.092 1.096				1.131		1.143	1.147	1.153	1.158	==:		1.163					1.220				
v (cm ⁻¹ )	728.7 730.6 732.5 734.5 736.4	738.3 740.2 742.2	744.1 746.0 748.0	749.9	755.7	763.4	767.2	773.0	776.9	782.7	786.5	792.3 794.3	796.2 798.1	843.4 865.6	887.8 910.0 932.3	954.4	1020.9	1065.3	1109.6	1152.1	1185.3	1200.8
*	0.009 0.009 0.016 0.016	0.016 0.008 0.008	0.014 0.007 0.013	0.019	0.020	0.035	0.633	1.533 2.712	2.131	1.099	0.815	0.089 0.006	0.027	0.013	0.014	0.003	0.00 4.00 5.00 5.00 5.00 5.00	0000	0.00	9000	900	0.006
  -	1.469 1.480 1.492 1.504 1.519	1.530 1.545 1.564	1.583 1.607 1.638	1.676	1.754	2.027	3.044	2.588 1.606	0.768	0.380	0.310	0.206 0.455	0.590	0.780	0.880	0.917	0.958	1.000	1.021	1.039	1.061	1.074
v (cm ⁻¹ )	614.9 616.8 618.7 620.6 622.6	624.5 626.4 628.4	630.3 632.2 634.1	636.1	623.8 643.8 7.5 7.5	649.6	653.4	659.2 661.2	663.1 665.0 665.0	668.9	672.7	678.5 680.4	682.4 684.3	688.2 690.1	692.0	697.8	701.7	707.4	711.3	715.2	721.0	724.8
ᅩ	0.042 0.032 0.032 0.043	0.042 0.021 0.032	0.032 0.042 0.031	0.021	0.021	0.021	0.020	0.030	0.010	0.020	0.020	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.009	0.00	0.000
II	1.361 1.356 1.331 1.338 1.343	1.329 1.338 1.329	1.337 1.332 1.328	1.329	1.334	1.335	1.333	1.337	45.1. 44.2. 44.2.	1350	1.352	1.350	1.353	1.370	1.370	1.382	1.393	1398	1.408	1.425	1.439	1.453
v (cm ⁻¹ )	501.1 503.0 504.9 506.8 508.8	510.7 512.6 514.6	516.5 518.4 520.3	522.3 524.2	528.1 530.0 531.9	533.8 535.8 537.7	539.6	\$45.7 \$47.3	549.3	555.1 557.0	558.9	564.7 566.6	568.6 570.5	574.4 576.3	578.2 580.1 582.1	584.0 585.9	587.9	593.6 593.6 595.6	597.5 599.4	601.4 603.3 605.3	607.1	611.0

*	Kernel State	0.000
=	n 1215 1215 1216 1220 1220 1220 1220 1220 1220 1220	1.204
v (cm ⁻¹ )	V (cm. 1) 3,888.6 3,868.6 3,868.6 3,869.2 3,869.6 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2 3,700.2	3796.7 3798.6
<b>×</b>	**************************************	0.00
  -	n 1	1.212 1.214 1.214
v (cm ⁻¹ )	V (Cm. 1) 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.574 k 3.57	3682.9 3684.8 3686.7
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u	1	1.183 1.183 1.183
v (cm ⁻¹ )	V (CHIP)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)  29(01)	3023.2 3023.2 3024.1 3025.1
<b>×</b>	**************************************	0.001
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v (cm ⁻¹ )	24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24484 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844 24844	2966.3 2967.2 2968.2
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v (cm ⁻¹ )	2365.4 2365.4 2365.4 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 2371.1 23	2473.4 2475.3 2477.3
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v (cm ⁻¹ )	V (Cm ⁻¹ ) 1259.6 1259.6 1261.5 1262.5 1263.5 1266.4 1266.4 1266.4 1266.4 1266.4 1266.4 1266.4 1266.4 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.1 1277.	1299.2 1300.1 1301.1 1302.0 1303.0 1304.0 1304.0 1304.9 1306.9 1306.9 1308.8 1308.8 1309.8 1309.8 1310.7 1311.7
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v (cm ⁻¹ )	V (Cm ⁻¹ )  728.7  728.7  728.7  738.4  736.4  746.0  749.9  751.8  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.6  751.	910.0 932.2 934.4 976.5 976.5 1020.9 1043.1 1087.4 1193.1 1152.1 1174.3 1174.3 1174.3
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а	n 1457 1479 1479 1479 1537 1537 1537 1537 1537 1537 1537 1537	0.874 0.899 0.939 0.955 0.969 0.998 1.007 1.032 1.032 1.032 1.033 1.045 1.057
v (cm ⁻¹ )	v (cm ⁻¹ ) v (cm ⁻¹ ) 614.9 618.7 620.6 622.6 622.6 624.5 626.4 628.4 628.4 630.3 630.3 630.3 641.9 643.8 643.6 653.4 653.4 653.4 653.4 653.4 653.4 653.4 653.4 653.6 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 663.0 664.0 665.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0 666.0	693.9 693.9 697.8 699.7 701.7 703.6 703.6 703.6 711.3 711.3 711.0 711.0 711.0 711.0 711.0 711.0 711.0 711.0
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v (cm ⁻¹ )	v (cm ⁻¹ )  v (cm ⁻¹ )  S03.1  S03.1  S04.9  S06.8	580.1 584.0 584.0 585.9 587.9 593.6 593.6 594.4 601.4 603.3 603.3 603.1 603.1

<b>×</b>	0000	00.00	0.000	0.002	0.006	0.126	0.069	0.010	0.000	0.007	900.0	9.0	0.00	0.003	0.003	0.007	0.002	0.002	0.007	0.002	0.007	0.002		0.000	000	00.00	000	80.0	0.00	0000	000	000	0.000	900	0.000	0000	0.000	0000	0.000	
u .	1217	1.220	1.225	1.234	1.244	1.271	1.152	1.178	1.185	1.189	1.192	1.194	1.195	1.197	1.197	1.199	1.199	1.200	1.200	1.200	1.201	1.201	1.200	1.202	1.202	1.202	1.202	1.202	1.203	1.204	1.203	1.205	1.205	1.25 4.02 4.02	1.204	1.205	1.205	1.205	1.206	
v (cm ⁻¹ )	3690.6 3692.5	3694.4	3698.3	3702.1	3704.1 3706.0	3707.9	3711.8	3713.7	3715.6	3719.5	3721.4	3723.4	3727.2	3729.2	3731.1	3734.9	3736.9	3738.8	3742.7	3744.6	3748.4	3750.4	3754.2	3756.2	3758.1	3761.9	3763.9	3767.7	3769.7	3773.5	3775.4	3779.3	3781.2	3783.2	3787.0	3788.9	3792.8	3794.7	3798.6	
<b>×</b>	0.00	0000	0.000	0.000	0000	0.000	0.007	0.075	0.023	0.003	0.003	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0000	0.000	0.007	0.000	0000	0.000	0.000	0.00	0.00	00.0	0.000	0.000	000	0.00	0.000	0000	0.000	0000	0.000	0000	0.000	
u c	1.210	1.211	1.212	1.214	1.215	1.220	1.236	1.234	1.173	1.196	1.199	1.201	1.202	1.203	1.203	1.205	1.205	1.206	1.207	1.207	1.206	1.206	1.207	1.207	1.208	1.208	1.208	1.208	1.209	1.209	1.209	1.209	1.209	1.209	1.210	1.210	1.212	1.212	1.214	ļ
v (cm ⁻¹ )	3576.8 3576.8 3578.7	3580.6	3584.5	3588.3	3590.3 3592.2	3594.1	3598.0	3599.9	3601.8	3605.7	3607.6	3609.6	3613.4	3615.3	3617.3	3621.1	3623.1	3625.0	3628.8	3630.8	3634.6	3636.6	3640.4	3642.3	3644.3	3648.1	3650.1	3653.9	3655.9	3659.7	3661.6	3665.5	3667.4	3669.4	3673.2	3675.1	3679.0	3680.9	3684.8	
¥	000	0000		0.000	000	0.00		0.00	0.00	90.0	0.000	0.00		0.00	000		0.00	0.00	000	0.00	00.0	0.000		0.00	0.00	0.00	0.00	800	0.00	0.00	00.0	000	0.000	000	0.000	0.00	0.000	0000	0.00	
u .	961.1	1.190	1.190	1.190	1.190	1.190	3 6	1.190	1.190	1.190	1.191	1.191	1.192	1.193	1.194	1.195	1.196	1.197	1.198	1.198	1.200	1.200	1.201	1.202	1.202	1.204	1.203	1.205	1.205	1.206	1.207	1.209	1.208	1.208	1.208	1.209	1.208	1.209	1.210	
v (cm ⁻¹ )	3083.0 3083.9 3084.9	3085.8	3087.8	3089.7	3090.7 3091.6	3092.6	3093.6	3095.5	3096.5	3098.4	3099.3	3110.9	3133.1	3144.2	3155.3	3177.5	3188.6	3199.7	3221.8	3232.9	3255.1	3266.2	3277.3	3299.5	3321.2	3365.5	3387.7	3432.1	3454.3	3498.6	3520.8	3551.7	3553.6	3555.5	3559.4	3561.3	3565.2	3567.1 3569.0	3571.0	
y S	0.002	0.002	0.00	0.001	0.00	0.001	0.00	0.00	0.001	0.007	0.002	0.002	0.00	0.000	0.000	000	0.000	0.000	000	0.000	0000	0.000	900	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0000	0.000	0.00	0.000	0.000	0.000	
_ '	1.185	1.185	1.185	1.186	1.186	1.186	1.18	1.186	1.186	1.18/	1.186	1.186	1.186	1.186	1.187	1.187	1.187	1.187	1.187	1.187	1.188	1.188	. 188	1.188	1.188	1.188	1.188	1.188	1.188	1.189	1.189	1.189	1.189	1.189	1.189	1.189	1.189	1.189	1.189	
v (cm ⁻¹ )	3027.0 3027.0 3028.0	3028.9	3030.9	3032.8	3033.8	3035.7	3036.7	3038.6	3039.6	3041.5	3042.4	3043.4	3045.3	3046.3	3047.3	3049.2	3050.2	3051.1	3053.1	3054.0	3055.9	3056.9	3057.9	3059.8	3060.8	3062.7	3063.7	3065.6	3066.6	3068.5	3069.4	3071.4	3072.3	3073.3	3075.2	3076.2	3078.1	3079.1	3081.0	
k		0.00		0000	0.00	0.000		0.00	0.00	000	0.00	0.00	900	0.00	0.00	0.00	0.001	0.0	0.00	0.002	0.00	0.002	0.002	0	0.003	-	90.0	0	0.00	0.00	0.00	0.003	0.005	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.004	90.0	0.003	0.003	0.002	
u .	1.185	1.185	1.185	1.185	1.185	1.185	1.165	1.186	1.186	1.186	1.186	1.186	1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.187	1.186	1.185	1.185	1.185	1.184	1.184	1.184	1.184	1.184	1.184	
v (cm ⁻¹ )	2969.1 2970.1 2971.1	2972.0	2974.0	2975.9	2976.9 2977.8	2978.8	2979.8	2981.7	2982.6	2984.6	2985.5	2986.5	2988.4	2989.4	2990.4	2992.3	2993.3	2994.2	2996.1	2997.1	2999.0	3000.0	3001.0	3002.9	3003.9	3005.8	3006.8	3008.7	3009.7	3011.6	3012.5	3013.5	3015.4	3016.4	3018.3	3019.3	3021.2	3022.2	3024.1	
	0.003						0.00	0.002	0.002	000	0.00	0.00	0.00	0.002	0.002	0.007	0.001	0.00	0000	0.00	0.00	0.000	0000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	0000	0.000	0.000	0000	0.000	0000	0.00	0000	0.000	
1 1	1.063	1.068	1.073	1.076	1.079	1.083	1.117	1.128	1.136	1.151	1.156	1.160	1.168	1.170	1.172	1.173	1.173	1.174	1.175	1.176	1.177	1.178	1.17	1.180	1.181	1.182	1.183	1.183	1.183	1.183	25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	1.18	1.184	1. 1. 2. 25 2. 25	1.184	2. 1. 2. 2.	1.18	1. 1. 1. 18 1. 18	2.1 2.1 2.2	ļ.
v (cm ⁻¹ )	24/9.2 2481.1 2483.0	2485.0	2488.8	2492.7	2494.6 2496.6	2498.5	2543.8	2566.0	2588.2	2632.5	2654.7	2676.9	2721.3	2743.5	2757.9	2780.1	2791.2	2802.3	2824.5	2835.6	2857.7	2868.8	28/9.9	2902.1	2913.2	2935.4	2946.5	2951.8	2952.7	2954.7	2955.6	2957.6	2958.5	2959.5	2961.4	2962.4	2964.3	2965.3	2967.2	
¥	0.877	0.741	0.624	0.480	0.387	0.027	0.013	0.014	0.010	0.013	0.012	0.010	0.011	0.012	0.010	0000	0.010	0.00	0.00	0.007	0.00	0.009	0.00	0.008	0.00	0.00	0.010	0.010	0.011	0.011	0.01	0.014	0.015	0.012	0.012	0.010	0.007	0.08 0.08	0.005	
1 1	0.389	0.360	0.323	0.259	0.213	0.385	0.561	0.617	0.660	0.727	0.754	0.777	0.818	0.834	0.850	0.876	0.888	0.900	0.920	0.931	0.948	0.955	0.967	0.976	0.982	0.993	0.999	1.008	1.012	1.021	1.025	1.027	1.032	1.033	1.039	2. g	1.046	1.05	1.054	
v (cm ⁻¹ )	2367.3 2367.3 2369.2	2371.2	2375.0	2378.9	2380.8	2384.7	2388.5	2390.5	2392.4	2396.2	2398.2	2400.1	2404.0	2405.9	2407.8	2411.7	2413.6	2415.5	2419.4	2421.3	2425.2	2427.1	2429.0	2432.9	2434.8	2438.7	2440.6	2444.5	2446.4	2450.3	2452.2	2454.1	2458.0	2459.9 2461.8	2463.8	2465.7	2469.5	2471.5	2475.3 2477.3	
×	0000	0.006	90.0	0.008	0.008	0.008	0.00	0.010	0.015	0.151	0.068	0.023	0.007	0.007	0.007	0.00	0.007	0.007	0.007	0.006	0.00	0.008	0.00	0.00	0.010	0.016	0.031	0.049	0.076	0.176	0.293	1.439	2.893	2.803	2.368	2.003	1.510	1.341	1.100	
u s	1.413	1.421	1.431	1.442	1.447	1.460	1.408	1.492	1.510	1.525	1.417	1.443	1.490	1.505	1.519	1.547	1.560	1.575	1.607	1.626	1.668	1.693	1.750	1.785	1.825	1.929	1.999	2.157	2.274	2.612	2.885	3.668	3.141	1.216	0.805	0.599	0.452	0.431	0.420	
v (cm ⁻¹ )	2253.5 2253.5 2255.4	2257.4	2261.2	2265.1	2267.0	2270.9	2274.7	2276.6	2278.6	2282.4	2284.4	2286.3	2290.2	2292.1	2294.0	2297.9	2299.8	2301.7	2305.6	2307.5	2311.4	2313.3	2317.2	2319.1	2321.0	2324.9	2326.8	2330.7	2332.6	2336.4	2338.4	2340.3	2344.2	2346.1	2349.9	2353.8	2355.7	2359.6	2361.5 2363.5	

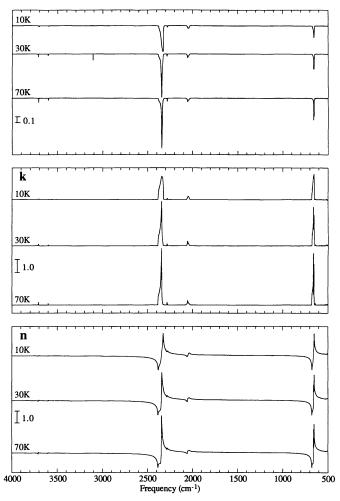


Fig. 12.—The 4000 to  $500~\rm cm^{-1}$  transmission spectra and optical constants (n and k) of a CO₂:OCS = 20:1 ice mixture at temperatures of 10, 30, and 70 K. The original ice was deposited at 10 K.

<b>K</b>	0.007	0.00	0.007	0.007	0.00	0.007	0.00	0.007	0.007	0.007	0.007	0.007	9.6	30.0	000	0.007	0.007	0.007	0.00	0.001	0.007	0.00	0.00	0.00	0.007	0.007	0.007	0.007	0.007	0.00	9.0	0.00	0.007	0.007	0.007	96	0.007	0.007	0.007	0.007	0.00	0.007	0.011	0.01	0.021	0.053	0.081	0.0 5.1 5.4	0.170
ء	284	283	1.286	1.288	1.287	1.288	288	1.290	1.290	1.290	1.291	1.291	1.291	767.1	267	1.295	1.295	1.296	1.296	1.299	300	200	305	305	1.305	1.306	1.307	1.309	1.310	1.311	1.313	1316	1.318	1.320	1.323	328	1.331	1.334	1.340	343	1.355	1.363	1.375	1.387	1.401	1.429	1.436	1.437	1.416
(cm ⁻¹ )	C	1930.9	4.7	V. 9	0.5	2.5	4 v	2.5	0.5	2.1	0.4	9.0	ر. ور ه	0.7.	7.7	5.6	7.5	9.5	1.4	3.3	5.3 6.3	7. 6		0.0	. 4. 5 0.	8.9	œ. œ.	0.7	2.6	4.5 5.5	0.0	7 6	2.3	4.	9.7	9.0	6.1	3.8	2.8	- v	5.5	3.5	5.4	5.7.3 5.00	3.5 2.5	3.1	5.0	0.0	8.0
(CI	1000	193	193	193		<u>7</u>	<u> </u>	- 2	195	195	195	55	5 5 5	7 2						_	_					_			_											2 5	202	502	502	562	203	203	88 —	2 2 2 3 3 3	<u></u>
<u>k</u>	800	000	0.00	0.00	0.00	0.000	96	000	0.007	0.00	0.00	0.007	0.00	36	96	0.007	0.000	0.007	0.00	0.00	0.00	90.0	0.00	300	0.00	0.007	0.007	0.000	0.007	0.00	36	0.00	0.00	0.00	0.007	96	0.007	0.007	0.007	9.6	000	0.007	0.007	0.00	0.00	0.00	0.007	0.007	0.001
  -	1 244	1.245	1.250	1.254	1.251	1.253	1.252	1.253	1.258	1.254	1.257	1.256	1.257	1.230	1 258	1.261	1.257	1.261	1.261	1.265	1.263	657.1	1 263	1 264	1.265	1.269	1.268	1.269	1.270	1.273	1.272	1.277	1.277	1.279	1.282	1 284	1.285	1.286	1.282	1.281	1.280	1.277	1.284	1.281	1.278	1.284	1.281	1.284	1.284
(cm ⁻¹ )	475.2	484.8	. <del>.</del> .	13.7	33.0	42.7	52.3	27.0	81.3	6.06	9.00	10.2	19.8 5.00	20.7	48.8	58.4	68.1	17.7	1687.4	97.0	9.90	10.3	25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5	45.0	754.9	5.45	74.2	83.8	93.4	03.1	812.7	832.0	41.7	851.3	61.0	0.0 20.0	6.68	99.5	01.9	ري د م	0.7.7	1909.7	11.6	13.5	917.4	19.3	21.2	923.2 925.1	27.0
) <u>v</u>	ļ								_	_							_	_	_	_					_		_	_	_				_	_				_									_		_
<u> </u>	0 013	0.000	0.00	0.012	0.012	0.012	0.0	0.0	0.00	0.01	0.01	0.01	0.0	35	200	0.010	0.010	0.000	0.010	0.010	00.0	0.010	0.0	0.010	0.010	0.00	0.00	0.00	0.00	90.0	3 6		0.00	0.00	9000		0000	0.00	0.00	9.5	300	0.008	0.000	000	300	0.00	0.00		0.00
a l	1 203	1209	1.219	1.218	1.224	1.216	1.218	1.222	1.223	1.227	1.227	1.226	1.220	1 220	1 227	1.225	1.233	1.228	1.230	1.229	1.233	1.255	1 230	1 236	1.235	1.235	1.236	1.231	1.235	1.237	1.23/	1.236	1.237	1.236	1.239	1,24	1.241	1.243	1.243	1 240	1241	1.248	1.245	1.243	1246	1.245	42.5	1.24	1.248
(cm ⁻¹ )	5	915.8	35.1	7.7	6.0	73.6	83.3	22.5	012.2	971.9	31.5	71.2	)50.8 20.8	4.007	797	389.4	0.660	108.7	118.3	128.0	137.6	7.75	5.5	26.2	1185.8	195.5	205.1	214.8	224.4	234.0	243.7	263.0	272.6	282.3	291.9	301.0	320.9	330.5	340.1	349.8 250.4	1,698	378.7	388.4	398.0	117.3	426.9	136.6	155.9	165.5
	1								_	-							_											_	_					_	_		_	_			- 4	_				. <del>.</del> .	<u> </u>		
<u>×</u>	3	0.015	0.01	0.0	0.0	0.01	500	0000	_	10.0	7 0.01:	7 0.01	0.01	7.00	35	0.000	2 0.01	0.00	5 0.01	5 0.01	5 0.015	0.01	0.0	0.0	0.01	0.01	0.01	3 0.015	0.00	0.0	0.014	0.00	5 0.0	5 0.012	0.01	0.012	0.01	5 0.01	5 0.014	0.0	0.01	0.01	7 0.014	90.0	0.0	0		000	
=	1 13	1.14	1.142	41.1	1.14	1.135	1.14	1.16	1.159	1.157	1.15	1.15	C1.1	1.15	1.15	1.16	1.162	1.16	1.16	1.16	1.16	1.100	1.10	1.10	1.16	1.16	1.16	1.173	1.172	1.17	1.1	1.10	1.17	1.17	1.176	1.1/0	1.176	1.175	1.17	1.1/4	1.16	1.182	1.17	1.18	7.1	1.197	1.19	1.202	1.20
(cm ⁻¹ )	753 3	754.2	756.2	757.1	759.0	760.0	0.197	762.9	763.9	764.8	765.8	766.8	761.1	760.7	7.70 6	771.6	772.6	773.5	774.5	775.4	776.4	4.1/1	. 077	780.3	781.2	782.2	783.2	784.1	785.1	786.1	0./8/	788.0	789.9	790.9	791.8	0.76/ 203.8	794.7	7.567	796.7	97.6	9.06/	809.7	819.3	829.0	828.0	857.9	9.798	877.2	896.5
<u>^</u>	Ļ	0.018	212	710	17	717	717	717	017	717	0.017	17.		35	717	0.017	0.017	. 00	910	916	910	916	910	116	0.016	116	910	916	910	916	916	910	910	910	916	910	910	916	0.016	1910	141	0.016				510.	.015	015	015
	L	966	_	936 0.0		0.0	5 % 5 6 6	e 2	88		999			_		_					054 0.0				_		077	_				989				103	50			71 7. 0. 5.	را را در ار	381	19 0.0	200	23.0 2.0	30 20 20 20 20 20 20 20 20 20 20 20 20 20	27 0.0	27 0.0	^ <b>-</b> -
1) u	ľ	000	0	0 0	0	6.0	6.0	200	0.9	6.0	6.0	0	0. 0	- - -	? -	? 0:	1.0	-	_		-i .	0.	0.0		20.	1.0	0.1	1.0	1.0	0.1	0.0	2 5	0.1	1.0	Ξ.		=======================================	Ξ	Ξ:	= =	: =	::	1.1	Ξ:	Ξ-	11	1.1	=======================================	1.12
v (cm ⁻¹	606 A	697.3	699.3	700.2	702.1	703.1	704.1	706.0	707.0	707.9	708.9	709.9	710.8	717.8	713.7	714.7	715.6	716.6	717.6	718.5	719.5	20.5	4.127	723.4	724.3	725.3	726.3	727.2	728.2	729.2	730.1	732.0	733.0	734.0	734.9	735.9	737.8	738.8	739.8	740.7	747.7	743.6	744.6	745.5	746.5	748.4	749.4	750.4	752.3
×	050	0.046	8	.031	028	.015	255	28.0	.093	797	979	.06	484	06/.	926	.861	820	8	.793	.754	.715	8/9	26.5	464	361	312	224	.155	060:	.029	846.	7007	875	.568	424	36	720	024	.022	.021	020	- 610	.019	019	- × 10.	810.	018	-018	018
l c	ı	815 0										250	867	237	274	751	601 1	470 1	335 1	208 1	079	106	253	7 7	 2	544	478 1	433 1	400	364	326	201	074	174 0	0 620	0 0 0 0 0 0	385 0	472 0	536 0	588 21	2 0 2 2 2 2	0	0	0	<b>5</b> C	- 0	0	00	875 0
	-	-			-	7	(i (	10	7	7	eri (	m c	2 0	4 C	7 -	-	-	-	_		(	<b>O</b>	<b>o</b> c	<b>O</b>	0	Ö	0	O	O	0	<b>o</b>	<i>-</i>	Ö	6	0	<b>o</b> c	o c	Ö	0	o c	o c	<i>i</i> o	0	0	o c	<i>i</i> o	0	00	30
v (cm ⁻¹ )	630	640.4	8	25.	£ £	946	4.5	£ £	650.	651.	652.	653.	653	60.4	556	657.	658.	659	999	961.	962.	8	\$ %	9 9	3.79	. 89	66	670.	671.	672.	6/3	6,4	676.	677.	678.	6/9	80.0	681	682.	683.	\$ 6	. `.98	. 287	889	288	691.	692.	693.	695.
<u>×</u>	0 017	0.017	0.00	0.017	0.017	0.000	0.017	0.017	0.017	0.017	0000	0.017	0.01	38	0.050	000	0.016	0.016	0.016	0.016	0000	2000	0.016	0.00	000	0.016	0.016	000.0	0.016	0.015	0.000	0.015	0.015	000.0	0.015	210.0	410	0.014	0.014	0.000	410.0	000.	0.013	0000	2.013	0.012	0.012	0.024	0.060
  -	٥	. ~ .									427			426				4.																						587						98.7			
(cm ⁻¹ )	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5.5	4.	4.4		.3	ω. 	7.0	1.2		1.	 	۰. ع د	200	, 0	. 6	.8	.8	.8	1.7	7.		e	9.9	5.5	.5	4	4.	4.1	٠. د	2.6	3 5	12	.2	- :	 		0.	0.0	2. 0 - 1	· ~		.8	L.			9.	9.4	
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   	0.07	0.000	0.00	0.020	0.00	0.000	0.000	0.039	0.020	0.039	0.020	0.000	0.020	0.020	300	0.000	0.00	0.000	0.00	0.019	0.00	0.000	0.037	0.019	0.019	0.00	0.019	0.019	0.019	0.000	0.018	0.019	0.000	0.018	0.00	0.018	0000	0.000	0.000	0.018	0.036	0.000	0.000	0.000	0.018	0.000	0.018	0.018	0.000
L C	1 351	1.315	1.356	1.355	1.380	1.344	1.369	1.354	1.344	1.343	1.333	1.348	1.341	1 358	1 348	1.355	1.358	1.370	1.370	1.364	1.357	1.36/	1.362	1355	1.346	1.355	1.360	1.363	1.351	1.359	1.364	1.356	1.367	1.360	1.367	1.376	1.361	1.372	1.383	1.376	1.305	1.371	1.372	1.386	1.3/8	1.397	1.393	1.389	1.403
(cm ⁻¹ )	-	503.0	8.9	8.6	2.6	14.6	6.5	0.3	2.3	2.4.2	26.1	 	0.0 0.0	ر د د د د	0.7.0	7.77	9.6	9.11	13.5	15.4	17.3		7.7	7.7	3.6	9.4	5.5	5.9	57.5	4.8	4.0		2.3	13.3	2.5	7.0	7.7	8.1	0.69	0 C	20	2.9	3.9	8. v	ς α α	7.7	78.7	7.67 7.7	9.1.6
) v	18	 8 % &	- S	<u>ک</u> کر	5.5	51	2. 5	25	22	52	22	 	 		— ፡ ድ		53	<u>~</u>	Α,	25	~ 2 2	Y 7			55	55	55	55	55	55	2 3	ا ا		\$	8,	× ×	2,5	. 25	38	ر د د	2.5	57.	57	57	<u>ب</u> در	52	57		

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TABLE 12A—Continued

ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
	1.113	0.001	3017.4	1.183	0.003	3574.4	1.205	0.003	3688.2	1.215	0.003
	1.113	0.001	3028.9	1.183	0.003	3576.3	1.206	0.003	3690.1	1.217	0.003
	1.114	0.001	3040.5	1.182	0.003	3578.2	1.204	0.003	3692.0	1.219	0.003
	1.114	0.001	3052.1	1.186	0.003	3580.1	1.207	0.000	3693.9	1.222	0.003
	1.115	0.001	3063.7	1.185	0.003	3582.1	1.206	0.000	3695.9	1.228	0.004
	1.115	0.001	3075.2	1.185	0.003	3584.0	1.208	0.003	3697.8	1.237	0.010
	1.115	0.001	3086.8	1.187	0.000	3585.9	1.210 1.213	0.000	3699.7	1.241 1.236	0.024
	1.116 1.116	0.001	3098.4 3110.0	1.186 1.185	0.000	3587.9 3589.8	1.213	0.000	3701.7 3703.6	1.220	0.047 0.059
	1.110	0.001	3110.0	1.187	0.003	3591.7	1.221	0.003	3705.5	1.220	0.059
	1.117	0.001	3133.1	1.188	0.000	3593.6	1.222	0.007	3707.5	1.184	0.059
	1.118	0.001	3144.7	1.189	0.003	3595.6	1.216	0.030	3709.4	1.175	0.035
	1.118	0.001	3156.3	1.189	0.003	3597.5	1.203	0.033	3711.3	1.176	0.033
	1.118	0.001	3167.8	1.189	0.000	3599.4	1.193	0.027	3713.2	1.183	0.014
	1.119	0.001	3179.4	1.189	0.003	3601.4	1.188	0.015	3715.2	1.187	0.014
	1.119	0.001	3191.0	1.189	0.003	3603.3	1.191	0.012	3717.1	1.188	0.011
	1.120	0.001	3202.1	1.187	0.004	3605.2	1.193	0.009	3719.0	1.191	0.008
	1.120	0.001	3213.6	1.184	0.000	3607.1	1.194	0.006	3721.0	1.192	0.008
	1.120	0.001	3225.2	1.185	0.003	3609.1	1.196	0.006	3722.9	1.193	0.008
	1.121	0.001	3236.8	1.185	0.000	3611.0	1.197	0.006	3724.8	1.193	0.008
	1.121	0.001	3248.4	1.185	0.003	3612.9	1.196	0.006	3726.7	1.194	0.008
	1.121	0.001	3259.9	1.185	0.000	3614.9	1.199	0.003	3728.7	1.195	0.005
	1.121	0.001	3271.5	1.186	0.003	3616.8	1.198	0.006	3730.6	1.196	0.006
2599.3	1.121	0.001	3283.1	1.187	0.003	3618.7	1.199	0.006	3732.5	1.196	0.006
2612.3	1.126	0.002	3294.7	1.186	0.000	3620.6	1.199	0.003	3734.5	1.197	0.006
	1.130	0.002	3306.2	1.187	0.003	3622.6	1.200	0.003	3736.4	1.197	0.006
	1.134	0.002	3317.8	1.188	0.000	3624.5	1.201	0.003	3738.3	1.197	0.006
2647.0	1.137	0.002	3329.4	1.190	0.000	3626.4	1.202	0.003	3740.2	1.197	0.006
	1.140	0.002	3340.9	1.191	0.003	3628.4	1.203	0.006	3742.2	1.197	0.003
	1.143	0.002	3352.5	1.190	0.003	3630.3	1.200	0.006	3744.1	1.199	0.003
	1.146	0.002	3364.1	1.192	0.003	3632.2	1.201	0.003	3746.0	1.200	0.006
	1.148	0.002	3375.7	1.191	0.003	3634.2	1.202	0.003	3748.0	1.199	0.003
	1.151	0.002	3387.2	1.191	0.003	3636.1	1.202	0.003	3749.9	1.198	0.003
	1.153	0.002	3398.8	1.192	0.003	3638.0	1.203	0.003	3759.5	1.201	0.003
	1.155	0.002	3410.4	1.193	0.003	3639.9	1.203	0.003	3769.2	1.203	0.003
	1.157	0.002	3422.0	1.194	0.000	3641.9	1.203	0.003	3778.8	1.204	0.003
	1.159	0.002	3433.5	1.194	0.003	3643.8	1.204	0.003	3788.5	1.205	0.003
	1.160	0.002	3445.1	1.194	0.003	3645.7	1.204	0.003	3798.1	1.204	0.003
	1.162	0.002	3456.7	1.195	0.003	3647.7	1.204	0.003	3807.8	1.207	0.000
	1.163	0.002	3468.3	1.196	0.003	3649.6	1.205 1.205	0.003	3817.4 3827.0	1.207 1.208	0.000
	1.165	0.002	3479.8	1.197	0.003	3651.5	1.205	0.003	3827.0	1.208	0.003
	1.166 1.167	0.002 0.002	3491.4 3503.0	1.197 1.198	0.003	3653.4 3655.4	1.205	0.003	3846.3	1.208	0.003
	1.169	0.002	3503.0 3514.6	1.198	0.000	3657.3	1.206	0.003	3856.0	1.209	0.003
	1.170	0.003	3526.1	1.199	0.003	3659.2	1.206	0.003	3865.6	1.209	0.003
	1.171	0.003	3537.7	1.200	0.003	3661.2	1.206	0.003	3875.3	1.212	0.003
	1.172	0.003	3549.3	1.200	0.003	3663.1	1.207	0.003	3884.9	1.211	0.003
	1.172	0.003	3551.2	1.200	0.000	3665.0	1.207	0.003	3894.6	1.213	0.003
	1.174	0.003	3553.1	1.203	0.003	3666.9	1.207	0.006	3904.2	1.212	0.003
	1.175	0.003	3555.1	1.202	0.003	3668.9	1.207	0.003	3913.9	1.212	0.000
	1.175	0.003	3557.0	1.202	0.003	3670.8	1.208	0.003	3923.5	1.214	0.003
	1.175	0.003	3558.9	1.202	0.003	3672.7	1.208	0.003	3933.1	1.213	0.003
	1.177	0.000	3560.9	1.201	0.003	3674.7	1.209	0.003	3942.8	1.215	0.003
	1.179	0.000	3562.8	1.201	0.003	3676.6	1.209	0.003	3952.4	1.215	0.000
	1.180	0.003	3564.7	1.200	0.003	3678.5	1.210	0.003	3962.1	1.215	0.003
	1.178	0.003	3566.6	1.201	0.000	3680.4	1.211	0.003	3971.7	1.216	0.003
	1.179	0.003	3568.6	1.203	0.000	3682.4	1.212	0.003	3981.4	1.215	0.003
	1.182	0.003	3570.5	1.204	0.000	3684.3	1.213	0.003	3991.0	1.215	0.003
	1.182	0.000	3572.4	1.205	0.000	3686.2	1.214	0.003		-	

TABLE 12B  $CO_2$ :OCS = 20:1 AT 30 K

k	0.007	0.007	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.012	0.00	0.002	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.021	0.031	0.045	0.092	0.112	0.143	0.162	0.225	0.255	0.353	0.303	0.119	0.075	0.039	0.010	0.005	0.006	0.006	
a a	1.303	1.308	1.309	1.312	1.313	1.315	1.316	1.319	1.320	1.322	1.327	1.325	1 329	1.332	1.336	1.339	1.345	1.349	1.360	1.368	1.378	1.399	1.410	1.424	1.429	1.42/	1.407	1.410	1.389	1.367	1.241	1.124	1.095	1.113	2 2 3 3 4	1.186	1.216	1.227	1.241	
v (cm ⁻¹ )	1969.0 1970.9	1974.8	1978.6	1980.6 1982.5	1984.4	1988.3	1990.2	1994.1	1996.0	1997.9	2001.8	2003.7	2007.6	2009.5	2011.4	2015.3	2017.2	2019.1	2023.0	2024.9	2026.8	2030.7	2032.6	2034.6	2038.4	2040.4	2044.2	2046.1	2050.0	2051.9	2055.8	2057.7	2061.6	2063.5	2067.4	2069.3	2073.1	20/5.1	2078.9	
×	0.008	0.08	0.008	0.00	0.007	0.007	0.007	0.007	0.007	0.007	0.00	0.007		0.007	0.00	0.00	0.007	0.00	0.00	0.00	0.00	0.000	0.007	0.00	0.000	0.00	0.007	0.007	0.007	0.00	0.007	0.00	0.00	0.00	0.00	0.00	0.007	0.007	0.007	
ď	1.246	1.248	1.248	1.246	1.248	1.253	1.252	1.252	1.253	1.255	1.256	1.254	1 256	1.261	1.261	1.261	1.261	1.264	1.262	1.264	1.266	1.268	1.270	1.272	1.270	1.277	1.277	1.278	1.280	1.282	1.285	1.285	1.295	1.297	1.300	1.300	1.300	1.300	1.305	
v (cm ⁻¹ )	1474.2	1503.1	1512.8	1532.1	1551.4	1570.7	1580.3	1599.6	1609.2	1618.9	1638.2	1647.8	1667 1	1676.7	1686.4	1705.7	1715.3	1725.0	1744.3	1753.9	1763.5	1782.8	1792.5	1802.1	1821.4	1831.1	1850.3	1860.0	1879.3	1888.9	1908.2	1917.9	1937.2	1946.8	1953.6	1955.5	1959.3	1961.3	1965.1 1967.1	
<u>×</u>	0.000	0.000	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.000	0.010	0.010	0.010	0.010	0.00	0.010	0.010	0.000	0.010	0.00	0000	0.00	0.00	0.00	0.00	90.00	0.000	0.00	0.000	000	0.008	0.00	0.008	0.008	0.00	0.00	0.00	0.008	0.008	
ll	1.207	1.213	1.211	1.211	1.215	1.218	1.219	1.223	1.221	1.222	1.226	1.226	1 227	1.226	1.223	1.225	1.236	1.232	1.232	1.233	1.234	1.236	1.236	1.230	1.237	1.237	1.236	1.236	1.238	1.243	1.241	45.5	1.242	1.241	1.243	1.245	1.245	1.241	1.245	
v (cm ⁻¹ )	905.2	934.1	953.4	963.0	982.3	1001.6	1011.3	1030.5	1040.2	1049.8	1069.1	1078.8	1000.1	1107.7	1117.3	1127.0	1146.3	1155.9	1175.2	1184.9	1194.5	1213.8	1223.4	1233.1	1252.4	1262.0	1281.3	1291.0	1310.2	1319.9	1339.2	1348.8	1368.1	1377.8	1387.4	1406.7	1426.0	1435.6	1454.9 1464.6	
حد	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.000	0.015	0.015	0.000	0.015	0.015	0.015	0.015	0.000	0.015	0.015	0.00	0.000	0.014	0.000	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.000	0.000	0.013	0.013	0.013	
-	1.12	1.115	1.116	1.119	1.121	1.123	1.124	1.126	1.127	1.127	1.131	1.136	1.13	1.136	1.142	1.140	1.138	1.136	1.145	1.142	1.138	1.148	1.155	1.156	1.155	1.159	1.157	1.156	1.157	1.157	1.158	1.158	1.159	1.155	1.178	1.187	1.192	1.192	1.195	
v (cm ⁻¹ )		755.7	756.6 757.6	758.6	760.5	762.4	763.4	765.3	766.3	767.2	769.2	770.1	1.1.1	773.0	774.0	775.0	776.9	9.777	779.8	7.80.7	781.7	783.6	784.6	785.6	787.5	788.5 789.4	790.4	791.4	793.3	794.3	796.2	797.1	799.1	808.7	818.4	837.7	856.9	866.6 876.2	885.9 895.5	:
<u></u>	0.018	0.018	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.010	0.016	0.016	0.015	0.015	0.015	0.015	;
=	0.850	0.872	0.888	0.912	0.935	0.951	0.957	0.963	0.975	0.981	0.991	0.996	35	1.010	1.013	1.014	1.034	1.035	2 2 2 2 2 2	<u>\$</u>	1.047	1.054	1.057	1.059	1.065	1.068	1.073	1.075	1.080	1.082	1.086	1.088	1.092	1.094	1.098	1.100	1.103	1.105	1.108	:
v (cm ⁻¹ )	695.9	8.869	700.7	701.7	703.6	705.5	706.5	708.4	709.4	710.3	712.3	713.2	714.7	716.1	717.1	718.1	720.0	721.0	722.9	723.8	724.8	726.7	7.27.7	728.7	730.6	731.6	733.5	734.5	736.4	737.3	739.3	740.2	742.2	743.1	744.1	746.0	748.0	748.9	750.9	:
∦ .≖	0.080	0.030	0.030	0.026	0.021	0.031	0.048	0.108	0.475	1.034	2.346	1.738	1.240	2.100	2.961	2.788	2.120	1.899	1.731	1.437	1.371	1.206	1.117	1.052	0.935	0.874	0.937	0.64	0.267	0.055	0.025	0.023	0.000	0.020	0.020	0.019	0.019	0.018 0.018	0.000	:
=		1.878	1.921	2.016	2.146	2.340	2.482	2.878	3.128	3.302	2.374	1.936	2.035	2.499	2.002	1.322	0.712	0.602	0.327	0.451	0.428	0.368	0.344	0.327	0.281	0.257	0.149	0.033	0.027	0.153	0.393	0.463	0.573	0.624	0.653	0.707	0.751	0.769	0.802	:
v (cm ⁻¹ )	639.0	641.9	643.8 643.8	\$ 4.8 2.54 2.54	646.7	648.6	649.6	651.5	652.5	653.4	655.4	656.3	6583	659.2	660.2	661.2	663.1	664.0	00000	6.999	667.9	669.8	670.8	671.8	673.7	674.7	9.929	677.6	679.5	680.4	682.4	683.3	685.3	686.2	687.2	689.1	691.1	692.0 693.0	693.9	:
	0.000	0.017	0.00	0.017	0.017	0.00	0.017	0.016	0.016	0.032	0.00	0.016	0.05	0.016	0.016	0.016	0.016	0.016	0.00	0.015	0.015	0.00	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.000	0.013	0.013	0.013	0.013	0.000	0.012	0.023 0.023	0.022	:
=		1.418	1.421	1.436	1.433	1.437	1.442	1.453	1.454	4. 4. 4. 4.	1.460	1.463	1.406	1.475	1.477	1.480	1.486	1.488	1.498	1.507	1.509	1.520	1.530	1.535	1.536	1.54	1.558	1.565	1.580	1.588	1.608	1.622	2. 4.	1.653	1.603	1.698	1.738	1.753	1.805	
v (cm-1)	582.1	585.0	585.9 586.9	587.9	589.8	591.7	592.7	594.6	595.6	596.5	598.5	599.4	600.4 4.00	602.3	603.3	604.3 5.4.3	606.2	607.1	609.1	610.0	611.0	612.9	613.9	614.9	616.8	617.8	619.7	620.6	622.6	623.5	625.5	626.4	628.4	629.3	631.3	632.2	634.1	635.1 636.1	637.0	
<u></u>	0.040	0.060	0.039	0.077	0.059	0.059	0.079	0.059	0.020	0.020	0.039	0.020	0.000	0.038	0.000	0.019	0.019	0.019	0.019	0.037	0.019	0.018	0.036	0.018	0.000	0.036	0.000	0.018	0.018	0.018	0.00	0.035	0.018	0.018	0.000	0.017	0.034	0.017	0.034	
=		1.372	1.387	1.394	1.359	1.353	1.343	1,337	1.339	1.351	1.333	1.338	1.245	1.360	1.359	1.364	1.373	1.374	1.379	1.374	1.370	1.379	1.374	1.369	1.381	1.382	1.380	1.387	1.385	1.382	1.400	1.396	1.401	1.399	1.397	1.414	1.402	1.405	1.401	
v (cm ⁻¹ )	501.1	506.8	508.8	512.6	516.5	520.3	522.3	526.1	528.1	530.0	533.8	535.8	439.6	541.6	543.5	545.4 547.3	549.3	550.2	552.2	553.1	554.1	556.0	557.0	558.0	559.9	260.8 261.8	562.8	563.7	565.7	566.6	568.6	569.5	571.5	572.4	574.4	575.3	577.2	578.2 579.2	580.1 581.1	

11	_			_	_		_	_	_		_	_	_	_			_	_	_	_	_			_	_			_	_	_			_	-		_	_	_		_	_		_	_		
=	1.177	1.178	1.180	1.182	1.182	1.182	1.182	1.185	1.184	1.185	1.186	1.186	1.187	1.187	1.18/	1.169	1.187	1.188	1.189	1.184	1.185	1.183	1.165	1.186	1.187	1.187	1.19	1.189	1.188	1.189	1.189	1.191	1.189	1.190	1.191	1.193	1.193	1.193	1.196	1.199	1.198	1.198	1.200	1.200	1.201	1.201
v (cm ⁻¹ )	2945.0 2955.6	2966.3	2987.5	3008.7	3019.3	3040.5	3051.1	3061.7	3072.3	3083.0	3104.2	3114.8	3125.4	3136.0	3146.6	3167.8	3178.4	3189.0	3199.7	3209.8	3220.4	3231.0	3252.2	3262.8	3273.4	3284.0	3305 3	3315.9	3326.5	3337.1	3347.7	3368.9	3379.5	3390.1	3400.7	3422.0	3432.6	3443.2	3464 4	3475.0	3485.6	3496.2 3506.8	3517.4	3528.1	3538.7 3549.3	3550.2
×	0.003 0.003	0.003	400	9.00	0.00	200	0.00	0.004	900	4 20 0	200	0.00	0.00	0.005	000	38	0000	0.000	0.001	0.001	0.00	0.00	0.002	0.002	0.002	0.002	200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003
c c	1.023 1.025	1.026	1.029	1.032	1.033	1.035	1.037	1.039	040.	1.04	1.043	1.04 44	1.045	1.058	700.1	1.079	1.093	1.100	1.106	1.112	1.116	1.121	1.129	1.132	1.135	1.138	1.1	1.146	1.148	1.150	1.152	1.156	1.158	1.159	1.161	1.162	1.165	1.166	1.168	1.170	1.171	1.1/1	1.173	1.174	1.175	1.176
v (cm ⁻¹ )	2483.0 2484.0	2485.0	2486.9	2488.8	2489.8	2490.8	2492.7	2493.7	2494.6	2495.6	2497.5	2498.5	2499.4	2510.1	2520.7	25419	2552.5	2563.1	2573.7	2584.3	2594.9	2605.5	2626.8	2637.4	2648.0	2658.6	2,6007.2	2690.4	2701.0	2711.6	2722.2	2743.5	2754.1	2764.7	27850	2796.5	2807.1	2817.7	2838.9	2849.5	2860.2	28/0.8	2892.0	2902.6	2913.2 2923.8	2934.4
×	0.009	0.010	40.0	0.0	20.00	0.000	0.011	0.011	0.005	0.0	0.011	9000	0.006	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.007	8000	0.008	0.008	800	0.008	0.008	0.000	0000	0.008	0.008	8000	0.003	0.003	0.003	0.003
u	0.871	0.883	0.891	0.899	0.905	0.910	0.920	0.920	0.925	0.929	0.932	0.936	0.943	0.946	0.948	0.930	0.955	0.957	0.959	0.962	20.9	0.900	0.900	0.972	0.974	0.976	0.979	0.980	0.982	0.982	0.984	0.990	0.992	0.994	0.996	1.000	1.002	1.003	1.00	1.007	1.008	1.008	1.013	1.015	1.018 1.019	1.021
v (cm ⁻¹ )	2426.1 2427.1	2428.1	2430.0	2431.9	2432.9	2435.9	2435.8	2436.8	2437.7	2438.7	2440.6	2441.6	2442.5	2443.5	2444.5	2446.4	2447.4	2448.3	2449.3	2450.3	2451.2	2452.2	2454.1	2455.1	2456.0	2457.0	2458 9	2459.9	2460.9	2461.8	2462.8	2464.7	2465.7	2466.7	2467.0	2469.5	2470.5	2471.5	2473.4	2474.4	2475.3	24/6.3	2478.2	2479.2	2480.2 2481.1	2482.1
k	0.985	0.939	0.886	0.825	0.808	0.741	0.737	0.794	0.730	0.529	0.329	0.382	0.173	0.046	0.00	0.00	0.012	0.000	0.003	0.005	0.007	0.00	0.00	0.002	0.00	0.005	900	0.007	0.008	0.008	90.0	0.002	0.003	0.00	90.0	0.005	0.006	0.00	0.00	0.007	0.007	80.0	0.008	0.008	0.000	0.000
u	0.322	0.302	0.284	0.258	0.241	0.220	0.212	0.152	0.050	0.029	0.00	0.016	0.012	0.100	0.204	0.342	0.384	0.423	0.460	0.491	0.518	0.541	0.581	0.603	0.621	0.638	0.668	0.681	0.693	0.704	0.713	0.737	0.748	0.758	0.708	0.785	0.794	0.801	0.816	0.822	0.829	0.835	0.847	0.852	0.858	0.867
v (cm ⁻¹ )	2369.2 2370.2	2371.2	2373.1	2375.0	2376.0	2377.9	2378.9	2379.8	2380.8	2381.8	2383.7	2384.7	2385.6	2386.6	2387.0	2389.5	2390.5	2391.4	2392.4	2393.4	2394.3	2395.3	2397.2	2398.2	2399.1	2400.1	2402.0	2403.0	2404.0	2404.9	2405.9	2407.8	2408.8	2409.7	2410.7	2412.6	2413.6	2414.6	2416.5	2417.5	2418.4	2419.4	2421.3	2422.3	2423.2 2424.2	2425.2
-4	0.008	0.000	0.000	0.08	0.00	8000	0.013	0.014	0.021	0.038	0.125	0.170	0.205	0.252	0.298	0.389	0.441	0.502	0.579	0.680	0.818	1.000	1.683	2.220	2.807	3.230	3.277	3.075	2.844	2.634	2.446	2.139	2.011	1.902	1.801	1.633	1.558	1.492	1.374	1.325	1.275	1.227	1.149	1.114	1.075	1.013
L C	1.833 1.851	1.871	1.914	1.966	1.995	2.07 2.064	2.104	2.150	2.204	2.204	2.381	2.424	2.470	2.520	2.369	2.682	2.753	2.835	2.932	3.043	3.168	3.302	3.503	3.456	3.199	2.742	1.724	1.352	1.089	0.906	0.7/6	0.612	0.560	0.521	0.487	0.44	0.424	0.412	0.390	0.380	0.371	0.360	0.354	0.346	0.340	0.329
v (cm ⁻¹ )	2312.3 2313.3	2314.3	2316.2	2318.1	2319.1	2321.0	2322.0	2322.9	2323.9	2325.8	2326.8	2327.8	2328.7	2329.7	2330.7	2332.6	2333.6	2334.5	2335.5	2336.4	2337.4	2330.3	2340.3	2341.3	2342.2	2343.2	2345.1	2346.1	2347.1	2348.0	2349.0	2350.9	2351.9	2352.8	7354.8	2355.7	2356.7	2357.7	2359.6	2360.6	2361.5	2363.5	2364.4	2365.4	2366.3 2367.3	2368.3
*	0.006 0.006	0.00	0.00	0.00	9000	0.00	900.0	9000	90.0	900	0.005	0.005	0.005	0.005		0.012	0.016	0.023	0.034	0.053	0.080	0.120	0.133	0.067	0.038	0.021	0000	0.00	0.005	90.0	9,6	0.007	0.007	0.007	300	0.006	0.006	0.000	0.008	0.008	0.007	0.00	0.005	0.005	0.00	0.009
	1.465 1.467	1.470	1.476	1.483	1.486	1.469	1.497	1.501	2002	1.514	1.519	1.524	1.530	1.537	1.545	1.562	1.572	1.583	1.593	1.602	1.606	1.595	1.501	1.488	1.500	1.516	1.546	1.557	1.568	1.580	1.591	1.608	1.616	1.625	26.7	1.652	1.662	1.6/3	1.695	1.705	1.716	1.741	1.754	1.770	1.800	1.816
v (cm ⁻¹ )	2255.4 2256.4	2257.4	2259.3	2261.2	2262.2	2264.1	2265.1	2266.0	0.7077	2268.9	2269.9	2270.9	2271.8	2272.8	2213.6	2275.7	2276.6	2277.6	2278.6	2279.5	2280.5	2261.3	2283.4	2284.4	2285.3	2286.3	2288.2	2289.2	2290.2	2291.1	2292.1	2294.0	2295.0	2295.9	2297.9	2298.8	2299.8	2300.8	2302.7	2303.7	2304.6	2306.5	2307.5	2308.5	2309.4 2310.4	2311.4
ᆇ	0.006	900	0.002	0.00	9000	0.00	0.002	0.002	9 5	000	0.00	0.002	0.002	0.002	900	9000	0.002	0.002	0.006	0.006	0.002		0.002	0.002	0.00	90.0	900.0	0.002	0.006	0.000	900	0.006	0.002	0.006	900	0.006	0.002	9 5	0.002	0.006	0.002	0.00	9000	90.0	0.000	0.006
c c	1.360 1.365	1.367	1.369	1.371	1.372	1.372	1.374	1.378	1.3/9	1.380	1.380	1.381	1.384	1.387	1 389	1.388	1.390	1.394	1.396	1.395	1.397	1.3%	1.403	1.406	1.408	1.408	1.410	1.413	1.415	1.416	1.410	1.420	1.423	1.426	1.428	1.430	1.433	1.436	1.439	1.442	1.445	1.450	1.452	1.454	1.45/	1.462
v (cm ⁻¹ )	2196.6 2198.5	2200.5	2202.4	2204.3	2205.3	2207.2	2208.2	2209.1	2210.1	2212.0	2213.0	2214.0	2214.9	2215.9	2210.9	2218.8	2219.7	2220.7	2221.7	2222.6	2223.6	2224.0	2226.5	2227.5	2228.4	2229.4	2231.3	2232.3	2233.2	2234.2	2235.2	2237.1	2238.1	2239.0	2241.0	2241.9	2242.9	2245.9	2245.8	2246.8	2247.7	2249.6	2250.6	2251.6	2253.5	2254.5
k	0.00 0.006	0.006	0.006	0.006	0.006	0.00	9000	0.006	0.00	0.000	0.006	9000	9000	0.00	0000	0.006	900.0	0.006	0.00	0.006	0.000	0.00	0.006	900.0	0.006	0.00	0.006	900.0	0.006	0.000	000	0.002	9000	0.000	0000	0.002	0.002	0.00	0.00	0.006	0.000	900.0	0.002	0.006	0.00	0.002
e,	1.252 1.257	1.262	1.265	1.272	1.274	1.279	1.281	1.283	1 287	1.289	1.291	1.292	1.294	1.296	1 299	1.300	1.302	1.303	1.305	1.306	208	1311	1.312	1.313	1.315	1.316	1.319	1.320	1.322	1.323	1.324	1.327	1.329	1.329	1.334	1.337	1.339	1.339	1.346	1.346	1.347	1.350	1.352	1.354	1.357	1.359
cm ⁻¹ )	)82.8 )84.7	)86.6 )88.6	90.5	94.4	96.3	1.00	102.1	0.5	0.5.9	8.60	111.7	113.7	115.6	10.4	21.4	23.3	25.2	127.2	129.1	31.0	37.9	36.2	38.7	40.7	42.6	4 4 5 4	48.4	50.3	52.2	54.2	58.0	59.9	61.9	65.8	67.7	9.69	71.5	75.4	77.3	79.2	81.2	85.0	87.0	88.9 0.00	92.7	94.7

TABLE 12B—Continued

ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
3551.2	1.203	0.000	3608.1	1.193	0.003	3665.0	1.208	0.003	3721.9	1.190	0.008
3552.2	1.204	0.003	3609.1	1.195	0.003	3666.0	1.208	0.003	3722.9	1.190	0.008
3553.1	1.203	0.003	3610.0	1.196	0.003	3666.9	1.208	0.006	3723.8	1.190	0.008
3554.1	1.203	0.003	3611.0	1.197	0.003	3667.9	1.207	0.003	3724.8	1.191	0.005
3555.1	1.203	0.003	3612.0	1.197	0.003	3668.9	1.208	0.003	3725.8	1.192	0.005
3556.0	1.203	0.003	3612.9	1.198	0.003	3669.8	1.208	0.003	3726.7	1.193	0.005
3557.0	1.203	0.003	3613.9	1.198	0.003	3670.8	1.208	0.003	3727.7	1.194	0.006
3558.0	1.203	0.003	3614.9	1.199	0.003	3671.8	1.208	0.003	3728.7	1.194	0.006
3558.9	1.203	0.003	3615.8	1.199	0.003	3672.7	1.209	0.003	3729.6	1.195	0.006
3559.9	1.203	0.003	3616.8	1.199	0.003	3673.7	1.209	0.003	3730.6	1.195	0.006
3560.9	1.203	0.003	3617.8	1.200	0.003	3674.7	1.209	0.003	3731.6	1.196	0.006
3561.8	1.203	0.003	3618.7	1.200	0.003	3675.6	1.210	0.003	3732.5	1.196	0.006
3562.8	1.203	0.003	3619.7	1.200	0.003	3676.6	1.210	0.003	3733.5	1.196	0.006
3563.7	1.203	0.003	3620.6	1.201	0.003	3677.6	1.210	0.003	3734.5	1.196	0.006
3564.7	1.203	0.003	3621.6	1.201	0.003	3678.5	1.211	0.003	3735.4	1.197	0.006
3565.7	1.203	0.003	3622.6	1.201	0.003	3679.5	1.211	0.003	3736.4	1.197	0.006
3566.6	1.202	0.003	3623.5	1.201	0.003	3680.4	1.211	0.003	3737.4	1.197	0.006
3567.6	1.203	0.000	3624.5	1.201	0.003	3681.4	1.212	0.003	3738.3	1.197	0.006
3568.6	1.204	0.003	3625.5	1.202	0.003	3682.4	1.212	0.003	3739.3	1.197	0.006
3569.5	1.203	0.003	3626.4	1.202	0.003	3683.3	1.212	0.003	3740.2	1.197	0.006
3570.5	1.203	0.003	3627.4	1.202	0.003	3684.3	1.213	0.003	3741.2	1.197	0.006
3571.5	1.204	0.000	3628.4	1.202	0.003	3685.3	1.213	0.003	3742.2	1.196	0.006
3572.4	1.205	0.003	3629.3	1.202	0.003	3686.2	1.214	0.003	3743.1	1.196	0.003
3573.4	1.204	0.003	3630.3	1.203	0.003	3687.2	1.214	0.003	3744.1	1.198	0.003
3574.4	1.204	0.003	3631.3	1.203	0.003	3688.2	1.215	0.003	3745.1	1.199	0.003
3575.3	1.205	0.000	3632.2	1.203	0.003	3689.1	1.216	0.003	3746.0	1.199	0.006
3576.3	1.206	0.003	3633.2	1.203	0.003	3690.1	1.216	0.003	3747.0	1.198	0.006
3577.2	1.205	0.003	3634.2	1.203	0.003	3691.1	1.217	0.003	3748.0	1.197	0.003
3578.2	1.205	0.003	3635.1	1.203	0.003	3692.0	1.218	0.003	3748.9	1.198	0.003
3579.2	1.205	0.003	3636.1	1.203	0.003	3693.0	1.219	0.003	3749.9	1.199	0.003
3580.1	1.206	0.000	3637.0	1.204	0.003	3693.9	1.221	0.003	3759.5	1.201	0.003
3581.1	1.206	0.003	3638.0	1.204	0.003	3694.9	1.222	0.003	3769.2	1.204	0.003
3582.1	1.206	0.003	3639.0	1.204	0.003	3695.9	1.224	0.004	3778.8	1.204	0.003
3583.0	1.207	0.000	3639.9	1.204	0.003	3696.8	1.227	0.004	3788.5	1.205	0.003
3584.0	1.207	0.003	3640.9	1.204	0.003	3697.8	1.229	0.007	3798.1	1.204	0.003
3585.0	1.208	0.000	3641.9	1.204	0.003	3698.8	1.232	0.007	3807.8	1.206	0.000
3585.9	1.209	0.003	3642.8	1.204	0.003	3699.7	1.235	0.010	3817.4	1.206	0.000
3586.9	1.209	0.003	3643.8	1.205	0.003	3700.7	1.238	0.013	3827.0	1.207	0.003
3587.9	1.208	0.003	3644.8	1.205	0.003	3701.7	1.241	0.016	3836.7	1.209	0.003
3588.8	1.210	0.000	3645.7	1.205	0.003	3702.6	1.245	0.021	3846.3	1.209	0.003
3589.8	1.212	0.000	3646.7	1.205	0.003	3703.6	1.248	0.030	3856.0	1.210	0.003
3590.7	1.214	0.003	3647.7	1.205	0.003	3704.6	1.251	0.036	3865.6	1.210	0.003
3591.7	1.215	0.003	3648.6	1.205	0.003	3705.5	1.257	0.048	3875.3	1.211	0.003
3592.7	1.217	0.004	3649.6	1.206	0.003	3706.5	1.256	0.080	3884.9	1.211	0.000
3593.6	1.219	0.007	3650.5	1.206	0.003	3707.5	1.228	0.133	3894.6	1.210	0.000
3594.6	1.220	0.010	3651.5	1.207	0.003	3708.4	1.176	0.136	3904.2	1.212	0.000
3595.6	1.220	0.013	3652.5	1.206	0.006	3709.4	1.144	0.079	3913.9	1.213	0.003
3596.5	1.222	0.013	3653.4	1.205	0.003	3710.3	1.144	0.041	3923.5	1.214	0.003
3597.5	1.228	0.015	3654.4	1.206	0.003	3711.3	1.153	0.023	3933.1	1.214	0.000
3598.5	1.233	0.031	3655.4	1.206	0.003	3712.3	1.163	0.014	3942.8	1.214	0.003
3599.4	1.217	0.074	3656.3	1.206	0.003	3713.2	1.171	0.011	3952.4	1.215	0.000
3600.4	1.183	0.071	3657.3	1.207	0.003	3714.2	1.177	0.011	3962.1	1.215	0.000
3601.4	1.169	0.071	3658.3	1.208	0.003	3715.2	1.180	0.011	3971.7	1.213	0.003
3602.3	1.175	0.027	3659.2	1.207	0.005	3715.2	1.181	0.011	3981.4	1.214	0.003
3603.3	1.173	0.012	3660.2	1.206	0.006	3717.1	1.183	0.008	3991.0	1.215	0.003
3604.3	1.186	0.009	3661.2	1.205	0.003	3717.1	1.186	0.008	3771.0	1.213	0.003
3605.2	1.189	0.006	3662.1	1.205	0.003	3719.0	1.187	0.008	l		
3606.2	1.190	0.006	3663.1	1.207	0.003	3720.0	1.188	0.008	1		
	1.191	0.003	3664.1	1.207	0.003	3720.0	1.189	0.008	l		
3607.1	1.171	0.003	3004.1	1.201	0.003	3141.0	1.107	0.000	1		

TABLE 12C  $CO_2$ :OCS = 20:1 AT 70 K

7	0.00 0.000 0.0001 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.000	0.011
=	1306 1306 1306 1306 1306 1316 1317 1318 1318 1318 1318 1318 1318 1318	1.234
v (cm ⁻¹ )	1969.0 1972.8 1972.8 1974.8 1976.9 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.8 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 1977.9 19	2078.9
×	0.000000000000000000000000000000000000	0.001
=	1250 1250 1250 1250 1250 1250 1250 1250	1.305
v (cm ⁻¹ )	1443.5   1444.2   1444.2   1444.2   1444.2   1444.2   1444.2   1444.2   1444.2   1444.2   1444.2   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1532.1   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1533.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1733.2   1	1965.1 1967.1
×	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.008
   	1223	1.245
v (cm ⁻¹ )	905.2 914.8 924.5 924.5 934.1 943.7 943.7 943.0 953.0 953.0 953.0 953.0 953.0 1001.6 1001.6 1001.6 1000.5 1000.5 1000.5 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3 117.3	1454.9
*	00000 00000 00000 00000 00000 00000 0000	0.013
l a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.199
v (cm ⁻¹ )	V V V V V V V V V V V V V V V V V V V	885.9
×	00000 00000 00000 00000 00000 00000 0000	0.015
=	0.843 0.843 0.843 0.843 0.843 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.944 0.	1.105
v (cm ⁻¹ )	\$\begin{align*} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	750.9
н	0.024 0.024 0.027 0.032 0.032 0.032 0.032 0.032 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	
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v (cm ⁻¹ )	\$\begin{align*} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	693.9
<u>×</u>	00000 00000 00000 00000 00000 00000 0000	0.022 0.044
	1423 1423 1423 1423 1423 1423 1423 1423	1.819
v (cm ⁻¹ )	\$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0 \$83.0	637.0
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11	1387 1377 1377 1377 1377 1377 1377 1377	1.410 1.414
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V (cm ⁻¹ ) 2196.6 2198.5 2200.1.4 2200.1.4 2200.1.4 2200.1.3 2200.2.3 2200.3.3 2200.3.3 2200.3.3 2200.3.3 2200.3.3 2200.3.3 2200.3.3 2200.3 2214.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 2211.0 22	2230.2 2236.1 2237.1 2238.1 2239.0 2240.0 2241.9 2242.9 2243.9 2243.9 2246.8 2246.8 2246.8 2247.7 2248.7 2248.7 2248.7 2250.6 2250.6
A 1000000000000000000000000000000000000	000000000000000000000000000000000000000
n 1244 1259 1266 1273 1273 1273 1273 1273 1273 1273 1273	1322 1323 1332 1333 1334 1338 1349 1349 1349 1351 1352 1353 1353
V (Cm ⁻¹ ) 2082.8 2083.6 2088.6 2088.6 2088.6 2099.4 2009.2 2009.2 2100.1 2104.0 2113.3 2123.3 2123.3 2132.9 2132.9 2136.4 2136.8 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9 2137.9	2130.1 2159.9 2161.9 2163.8 2165.7 2165.7 2173.4 2173.4 2177.3 2177.3 2177.3 2177.3 2188.0 2188.0 2188.0 2188.0 2188.0

TABLE 12C—Continued

				IABLE	: 12C—	-Continue					
v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
3551.2	1.202	0.003	3608.1	1.194	0.006	3665.0	1.205	0.003	3721.9	1.189	0.008
3552.2	1.202	0.003	3609.1	1.195	0.006	3666.0	1.205	0.003	3722.9	1.189	0.008
3553.1	1.202	0.003	3610.0	1.195	0.006	3666.9	1.206	0.003	3723.8	1.189	0.008
3554.1	1.202	0.003	3611.0	1.196	0.006	3667.9	1.207	0.003	3724.8	1.189	0.005
3555.1	1.202 1.202	0.003	3612.0	1.196 1.195	0.006	3668.9 3669.8	1.206	0.006	3725.8 3726.7	1.191	0.005
3556.0 3557.0	1.202	0.003	3612.9 3613.9	1.195	0.006 0.003	3670.8	1.205 1.206	0.003 0.003	3720.7	1.192 1.192	0.005 0.005
3558.0	1.202	0.003	3614.9	1.198	0.003	3671.8	1.206	0.003	3728.7	1.192	0.005
3558.9	1.202	0.003	3615.8	1.198	0.006	3672.7	1.207	0.003	3729.6	1.194	0.003
3559.9	1.203	0.003	3616.8	1.197	0.003	3673.7	1.207	0.003	3730.6	1.195	0.006
3560.9	1.203	0.003	3617.8	1.198	0.003	3674.7	1.207	0.003	3731.6	1.194	0.006
3561.8	1.203	0.003	3618.7	1.199	0.003	3675.6	1.207	0.003	3732.5	1.195	0.003
3562.8	1.202	0.003	3619.7	1.200	0.003	3676.6	1.208	0.000	3733.5	1.196	0.006
3563.7	1.202	0.003	3620.6	1.200	0.003	3677.6	1.209	0.003	3734.5	1,196	0.006
3564.7	1.202	0.000	3621.6	1.200	0.003	3678.5	1.209	0.003	3735.4	1.196	0.006
3565.7	1.204	0.000	3622.6	1.201	0.003	3679.5	1.209	0.003	3736.4	1.195	0.006
3566.6	1.204	0.003	3623.5	1.201	0.003	3680.4	1.209	0.003	3737.4	1.195	0.006
3567.6	1.204	0.000	3624.5	1.202	0.003	3681.4	1.210	0.003	3738.3	1.195	0.003
3568.6	1.205	0.000	3625.5	1.201	0.006	3682.4	1.210	0.003	3739.3	1.197	0.003
3569.5	1.206	0.003	3626.4	1.201	0.003	3683.3	1.210	0.003	3740.2	1.198	0.003
3570.5	1.205	0.003	3627.4	1.202	0.003	3684.3	1.211	0.000	3741.2	1.198	0.006
3571.5	1.204	0.003	3628.4	1.202	0.003	3685.3	1.212	0.003	3742.2	1.196	0.006
3572.4	1.205	0.000	3629.3	1.203	0.003	3686.2	1.212	0.000	3743.1	1.196	0.003
3573.4	1.206	0.003	3630.3	1.204	0.003	3687.2	1.214	0.003	3744.1	1.197	0.003
3574.4	1.205	0.003	3631.3	1.204	0.006	3688.2	1.213	0.003	3745.1	1.198	0.003
3575.3	1.205	0.003	3632.2	1.202	0.006	3689.1	1.214	0.000	3746.0	1.199	0.003
3576.3	1.206	0.000	3633.2	1.201	0.006	3690.1	1.216	0.003	3747.0	1.198	0.006
3577.2	1.207	0.003	3634.2	1.201	0.003	3691.1	1.216	0.003	3748.0	1.198	0.003
3578.2	1.207	0.003	3635.1	1.202	0.003	3692.0	1.216	0.003	3748.9	1.198	0.003
3579.2	1.207	0.003	3636.1	1.203	0.003	3693.0	1.217	0.000	3749.9	1.199	0.003
3580.1	1.207	0.003	3637.0	1.203	0.003	3693.9	1.219	0.003	3759.5	1.201	0.003
3581.1	1.207	0.003	3638.0	1.203	0.003	3694.9	1.219	0.003	3769.2	1.201	0.000
3582.1	1.207	0.003	3639.0	1.204	0.003	3695.9	1.221	0.000	3778.8	1.202	0.003
3583.0	1.208	0.003	3639.9	1.204	0.003	3696.8	1.225	0.000	3788.5	1.204	0.003
3584.0	1.208	0.003	3640.9	1.204	0.003	3697.8	1.227	0.004	3798.1	1.204	0.000
3585.0	1.208	0.003	3641.9	1.205	0.003	3698.8	1.230	0.004	3807.8	1.207	0.000
3585.9	1.209	0.003	3642.8	1.205	0.003	3699.7	1.232	0.007	3817.4	1.207	0.000
3586.9 3587.9	1.209 1.210	0.003	3643.8 3644.8	1.206 1.206	0.003	3700.7 3701.7	1.235 1.239	0.007 0.010	3827.0 3836.7	1.208 1.207	0.003
3588.8	1.210	0.003	3645.7	1.204	0.006	3701.7	1.239	0.010	3846.3	1.207	
3589.8	1.210	0.003	3646.7	1.204	0.003	3702.6	1.243	0.010	3856.0	1.210	0.003
3590.7	1.212	0.003	3647.7	1.204	0.003	3703.6	1.257	0.019	3865.6	1.211	0.000
3590.7	1.212	0.003	3648.6	1.206	0.006	3704.6	1.270	0.023	3875.3	1.211	0.003
3592.7	1.215	0.003	3649.6	1.206	0.006	3706.5	1.283	0.065	3884.9	1.211	0.003
3593.6	1.217	0.004	3650.5	1.205	0.006	3707.5	1.262	0.150	3894.6	1.212	0.003
3594.6	1.219	0.007	3651.5	1.205	0.006	3708.4	1.178	0.209	3904.2	1.213	0.000
3595.6	1.221	0.007	3652.5	1.205	0.006	3709.4	1.119	0.090	3913.9	1.212	0.003
3596.5	1.225	0.007	3653.4	1.205	0.006	3710.3	1.128	0.032	3923.5	1.214	0.003
3597.5	1.233	0.010	3654.4	1.205	0.006	3711.3	1.147	0.016	3933.1	1.215	0.003
3598.5	1.244	0.019	3655.4	1.204	0.006	3712.3	1.161	0.011	3942.8	1.214	0.003
3599.4	1.239	0.071	3656.3	1.204	0.006	3713.2	1.170	0.011	3952.4	1.216	0.003
3600.4	1.190	0.117	3657.3	1.205	0.003	3714.2	1.174	0.011	3962.1	1.215	0.003
3601.4	1.158	0.034	3658.3	1.205	0.006	3715.2	1.178	0.008	3971.7	1.215	0.000
3602.3	1.169	0.011	3659.2	1.205	0.006	3716.1	1.181	0.011	3981.4	1.216	0.003
3603.3	1.179	0.006	3660.2	1.204	0.006	3717.1	1.183	0.008	3991.0	1.216	0.003
3604.3	1.186	0.006	3661.2	1.204	0.006	3718.1	1.185	0.008			
3605.2	1.189	0.006	3662.1	1.204	0.003	3719.0	1.186	0.008			
3606.2	1.191	0.006	3663.1	1.204	0.006	3720.0	1.188	0.008	]		
3607.1	1.193	0.006	3664.1	1.204	0.003	3721.0	1.188	0.008	L		

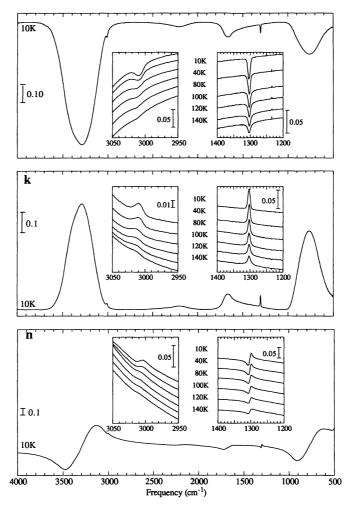


FIG. 13.—The 4000 to 500 cm⁻¹ transmission spectrum and optical constants (n and k) of a  $H_2O:CH_4=20:1$  ice mixture at 10 K. The insets show expansions of the  $CH_4$  features in the 3050 to 2950 cm⁻¹ and 1400 to 1200 cm⁻¹ regions for the ice at temperatures of 10, 40, 80, 100, 120, and 140 K. The original ice was deposited at 10 K.

TABLE 13A  $H_2O:CH_4 = 20:1 \text{ AT } 10 \text{ K}$ 

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v (cm ⁻¹ )	3559.9 3559.9 3559.9 3559.9 3559.9 3559.9 3559.9 3559.9 3559.9 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1 3659.1	
×	0.0094 0.0103 0.0108 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109 0.0109	
=	1628 1634 1634 1637 1637 1638 1638 1638 1638 1638 1638 1638 1638	
v (cm ⁻¹ )	3085.4 3088.7 3088.7 3088.7 3088.7 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 3117.2 31	
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_ =	1441 1441 1444 1444 1444 1444 1444 144	
v (cm ⁻¹ )	2888.5 2888.5 2888.5 2888.5 2989.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 299.5 2	
<u>×</u>	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
_ =		
v (cm ⁻¹ )	>	
<u>×</u>		0.014 0.013 0.012
=		1.356 1.356 1.356
v (cm ⁻¹ )	>	2260.7 2270.9 2281.0
<u>×</u>	8 000172 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 000	0.075 0.070 0.070
=		1.318
v (cm ⁻¹ )	V V V V V V V V V V V V V V V V V V V	1673.4 1673.5 1683.5
يد ا	20000000000000000000000000000000000000	0.057
_		1319
v (cm ⁻¹ )	V (1971) 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9 1020.9	1305.9 1305.9 1308.8
<u>k</u>	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.003
F	1589 1589 1589 1589 1589 1589 1589 1589	1.224
v (cm ⁻¹ )	\$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.00   \$ 50.0	1003.5 1012.2

TABLE 13B  $H_2O:CH_4 = 20:1 \text{ AT } 40 \text{ K}$ 

_   _	054	0.045	.038	.032	920	017	.013	0.011	90.0	288	000	38	1000	8	0000	0000	000	0000	8	8	0.000	8	0.000	8	0.00	0.00	8	0.00	8	0.000	0.000	0.00	0.00	0.000	8.8	38	38	300	88	0.000	000.0	0.000	0.000	0000	38	38	0.000	0.001	<u>.</u>					]
-	1	.049 .0								135 0														197 0	_						.214 0.						0 077						236 0.				241							
	٦,	-	_			_	_			-		-	_	_	_		1	_	_	_	_	_	_					_	_	-	1	_	_	_		٠.		-	-	_	_	_	~i ·	<b>-</b>		-	-	1	_					
v (cm ⁻¹ )	3540	3551.2	3559.9	3568.0	3585	3594.0	3603.	3612.0	3620.	3638	3646	3655	3664	3672.	3681.4	3690.1	3698.8	3707.5	3716.1	3724.8	3733.5	3742.	3750.9	3759.	3768.	3776.	3785.0	3794	3802.9	3811.6	3820.3	3829.0	3837.	3846	3855.0	3863.	38/27	3889 7	3898	3907.	3915.8	3924.5	3933.1	3941.8	3950.	3067 0	3976.	3985.2	3993.					
_ <u>_</u>	0000	0.106	0.113	0.121	0.128	0.160	0.186	0.214	0.242	0.298	0.327	0.354	0.382	0.408	0.434	0.457	0.479	0.501	0.520	0.538	0.553	0.566	0.575	0.580	0.581	0.578	0.569	0.559	0.546	0.531	0.516	0.501	0.485	0.470	0.454	0.439	0.423	0.385	0.364	0.343	0.319	0.293	0.267	0.240	0.213	0.163	0.141	0.121	0.103	0.088	0.063			
	-	1.669	1.673	1.677	1.080	1.692	1.697	1.700	1.700	1.038	1 684	1 674	199	1.645	1.628	1.608	1.586	1.562	1.536	1.507	1.477	1.444	1.409	1.374	1.338	1.303	1.268	1.238	1.210	1.184	1.161	1.140	1.121	1.102	1.085	1.06/	1.050	1.033	1.002	0.988	0.976	0.968	0.961	0.957	0.957	0.900	0.972	0.982	0.993	1.005	1.027			
v (cm ⁻¹ )	3085 4	3088.3	3091.1	3094.0	3090.9	3108.5	3117.2	3125.9	214.0	31519	31606	31693	3178.0	3186.6	3195.3	3204.0	3212.7	3221.4	3230.0	3238.7	3247.4	3256.1	3264.8	3273.4	3282.1	3290.8	3299.5	3308.2	3316.8	3325.5	3334.2	3342.9	3351.6	3360.2	3368.9	33//.6	3380.3	3403.6	3412.3	3421.0	3429.7	3438.4	3447.0	3455.7	2404.4 4.404.4	3481.8	3490.4	3499.1	3507.8	3516.5	3533.8			
	0000	0000	0.000	0.00	300	0.001	0.002	0.002	38	20.00	20.00	2000	0.00	0.005	0.00	9000	0.00	0.007	0.00	0.008	0.00	0.010	0.011	0.012	0.014	0.017	0.021	0.025	0.026	0.026	0.026	0.025	0.025	0.025	0.025	0.026	0.028	0.023	0.033	0.036	0.038	0.041	0.04	0.048	0.052	9000	0.064	0.069	0.075	0.080	0.092			
=	1 450	1.454	1.458	1.462	1.40/	1.478	1.484	1.491	1.490	1.502	1504	1.506	1.509	1.511	1.513	1.516	1.519	1.521	1.524	1.527	1.530	1.533	1.537	1.540	1.545	1.549	1.551	1.552	1.552	1.552	1.554	1.557	1.560	1.564	1.569	1.5/3	1.3/8	1.587	1.592	1.597	1.602	1.607	1.612	1.617	1.622	1.027	1.637	1.642	7.5	1.651	1.661			İ
v (cm ⁻¹ )	2858.2	2868.4	2878.5	2888.6	2908.7	2919.0	2929.1	2939.2	2052 2	2955.2	2058 1	6096	2963.8	2966.7	2969.6	2972.5	2975.4	2978.3	2981.2	2984.1	2987.0	2989.9	2992.8	2995.7	2998.6	3001.5	3004.3	3007.2	3010.1	3013.0	3015.9	3018.8	3021.7	3024.6	3027.5	5030.4	3035.3	3030.7	3042.0	3044.9	3047.7	3050.6	3053.5	3056.4	3062.2	3065 1	3068.0	3070.9	3073.8	3079.6	3082.5			
يد ا	0.013	0.012	0.012	0.011	0.010	0.009	0.000	0.008	0.00	0.00	9000	0000	0.005	0.005	0.005	0.005	0.00	0.00	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.00	0000	0.000	38	0000	0.000	0.000	0.000	0.000	0.000	000	38		0.000	0.000	0.000		0.000			
=	1 360	1.360	1.361	1.362	1.363	1.363	1.364	1.365	1.300	1368	1 360	1 370	1.371	1.372	1.373	1.373	1.375	1.376	1.377	1.378	1.379	1.380	1.381	1.383	1.384	1.385	1.387	1.388	1.389	1.391	1.393	1.394	1.396	1.398	1.399	1.401	1.405	1.407	1.409	1.411	1.413	1.415	1.417	1.419	1.422	1 427	1.430	1.433	1.436	1.439	1.446			
v (cm ⁻¹ )	2201 1	2301.2	2311.4	2321.5	2341.8	2351.9	2362.0	2372.1	7307 4	2402.5	24126	2422.8	2432.9	2443.0	2453.1	2463.3	2473.4	2483.5	2493.7	2503.8	2513.9	2524.0	2534.2	2544.3	2554.4	2564.5	2574.7	2584.8	2594.9	2605.1	2615.2	2625.3	2635.4	2645.6	2655.7	8.007	26/2.9	2696.2	2706.3	2716.5	2726.6	2736.7	2746.8	2757.0	27777	27873	2797.5	2807.6	2817.7	2838.0	2848.1			
k	0.063	0.057	0.048	0.039	0.029	0.017	0.013	0.011	9.0	300	900	280	000	0003	0.002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.0	9.0	0.005	0.00	38	0000	0.010	0.011	0.012	0.013	0.015	0.016	0.01	0.018	0.019	0.019	0.018	0.017	0.016	0.015	710.0
=	1 307	1.300	1.296	1.294	1 295	1.302	1.306	1.310	1.313	1319	1 322	1 324	1.326	1.329	1.331	1.332	1,334	1.336	1.338	1.339	1.340	1.342	1.344	1.345	1.346	1.348	1.349	1.350	1.351	1.353	1.354	1.356	1.357	1.358	1.359	1.360	1.361	1.363	36.5	1.365	1.366	1.366	1.366	1.366	1.366	1.367	1.364	1.362	1.361	1.361	1.359	1.359	1.359	1.00
v (cm ⁻¹ )	1693 6	1703.7	1713.9	1724.0	1744.1	1754.4	1764.5	1774.6	8.4.8	1805.0	1815.1	1825 3	1835.4	1845.5	1855.7	1865.8	1875.9	1886.0	1896.2	1906.3	1916.4	1926.5	1936.7	1946.8	1956.9	1967.1	1977.2	1987.3	1997.4	2007.6	2017.7	2027.8	2037.9	2048.1	2058.2	2068.3	20/8.4	2000.0	2108.8	2119.0	2129.1	2139.2	2149.3	2159.5	2109.0	2180 8	2200.0	2210.1	2220.2	2230.4	2250.6	2260.7	2270.9	77077
k	0.024	0.020	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.021	0.021	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.027	0.028	0.030	0.030	0.031	0.032	0.033	0.034	0.036	0.037	0.040	0.041	0.042	0.044	0.0	0.040	0.052	0.055	0.057	0.061	0.067	0.069	0.069	,500
=	1 324	1.329	1.332	1.335	1.336	1.339	1.340	1.34	1.341	1.343	1 343	134	4	1.345	1.345	1.345	1 346	1.346	1.346	1.347	1.347	1.347	1.347	1.347	1.348	1.348	1.348	1.349	1.349	1.349	1.350	1.351	1.352	1.351	1.352	1.352	1.353	1 354	1.354	1.354	1.354	1.355	1.354	1.355	1.354	1 353	1.352	1.350	1.349	1.347	1.336	1.329	1.322	1.01
v (cm ⁻¹ )	13117	1314.6	1317.5	1320.4	1325.3	1329.1	1331.9	1334.8	1337.7	1343.5	1346.4	13403	1352.2	1355.1	1358.0	1360.9	1363.8	1366.7	1369.6	1372.5	1375.3	1378.2	1381.1	1384.0	1386.9	1389.8	1392.7	1395.6	1398.5	1410.1	1420.2	1430.3	1440.4	1450.6	1460.7	1470.8	1481.0	1501.7	1511.3	1521.5	1531.6	1541.7	1551.8	1562.0	15/2.1	1502.4	1602.5	1612.6	1622.7	1632.9	1653.1	1663.2	1673.4	
<u> </u>	8	0.00	000.0	90.0	38	000.0	000.0	98	38	38	300	200	2000	003	200	900	9	0.005	0.005	900.0	900.0	9000	9000	0.007	0.007	0.007	2.007	0.007	600.0	600.0	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.01	0.012	0.012	0.012	0.012	0.013	0.013	0.013	100	0.015	0.015	0.018	07070	0.053	0.068	0.051	2000
=	ļ _×				1.208								308					1.321							1.330													1 340				1.343 (		1.345			1.350					1.343		1
v (cm ⁻¹ )	1019 5	1028.1	1036.8	1045.5	1062.9	1071.5	1080.2	1088.9	1106.3	1114.9	1173.6	1132.3	1141.0	1149.7	1158.3	1167.0	1175.7	1184.4	1193.1	1201.7	1204.6	1207.5	1210.4	1213.3	1216.2	1219.1	1222.0	1224.9	1227.8	1230.7	1233.6	1236.5	1239.4	1242.2	1245.1	1248.0	1250.9	1256.7	1259.6	1262.5	1265.4	1268.3	1271.2	1274.1	0.7/21	1282.8	1285.6	1288.5	1291.4	1294.3	1300.1	1303.0	1305.9	1,000,0
×	0.032	0.038	0.040	45.5	0.030	0.064	0.072	0.082	0.089	0.112	125	0.136	0.151	0.168	0.186	0.203	0.223	0.241	0.261	0.279	0.299	0.318	0.334	0.350	0.365	0.375	0.386	0.392	0.396	0.398	0.397	0.394	0.390	0.382	0.371	0.357	0.343	0.320	0.289	0.270	0.246	0.224	0.200	0.174	0.149	1010	0.079	0.059	0.043	0.029	0.011	0.005	0.003	2222
_	J	1.562													1.615																							1.175					_ (	∽.	1.111	າແ				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			1.219	1
v (cm ⁻¹ )	\$07.3	516.0	524.7	533.4	550.7	559.4	568.1	576.8	504 1	602.8	6115	620.2	628.8	637.5	646.2	624.9	663.6	672.2	6.089	9.689	698.3	707.0	715.6	724.3	733.0	741.7	750.4	759.0	7.797	776.4	785.1	793.8	802.5	811.1	819.8	828.5	837.2	854.5	863.2	871.9	9.088	889.3	897.9	906.6	915.3	032.7	941.3	950.0	958.7	96/.4	984.7	993.4	1002.1	אַאַאיה

TABLE 13C  $H_2O:CH_4 = 20:1 \text{ AT } 80 \text{ K}$ 

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v (cm ⁻¹ )	1693.6 173.9 1744.1 1744.1 1744.3 1744.5 1744.6 1744.5 1744.6 1744.5 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1855.3 1855.3 1855.3 1855.3 1855.3 1855.3 1855.3 1875.9 1875.9 1875.9 1875.9 1875.9 1875.9 1875.9 1877.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 1977.1 197	2281.0
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v (cm ⁻¹ )	1311.7 1314.6 1323.2 1326.2 1326.2 1326.2 1326.2 1337.7 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.3 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1348.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 1357.2 13	1683.5
7	0.000000000000000000000000000000000000	0.033
u	1.235 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255	1.329
v (cm ⁻¹ )	1019.5 1036.8 1036.8 1036.8 1045.5 1052.9 1062.9 1062.9 1062.9 1062.9 1062.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 1114.9 114.9 114.9 114.9 114.9 114.9 114.9 114.9 114.9 114	1308.8
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TABLE 13D  $H_2O:CH_4 = 20:1 \text{ AT } 100 \text{ K}$ 

V(cm²)   15   10   10   10   11   11   11   11	11-	
15   10   10   10   10   10   10   10	۷.	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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Name   K   V(cm ⁻¹ )   n   n   v   V(cm ⁻¹ )   n   n   n   n   n   n   n   n   n	د	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
Name	2	1366 1367 1366 1367 1366 1367 1377 1377
1,515 0.000   109.5   1236 0.000   131.17   1318 0.027   170.8   1316   1316   1318 0.000   109.5   1236 0.000   131.17   1336 0.027   170.8   1316   1316 0.000   109.5   1236 0.000   131.2   1336 0.027   170.8   1316   1316 0.000   103.8   1317   1328 0.000   103.8   1317   1328 0.000   103.8   1317   1328 0.000   132.8   1317   1328 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1348 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1318 0.000   132.8   1348 0.000   132.8   1318 0.000   132.8   1348 0.000   132.8   1318 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   1348 0.000   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   132.8   1	v (cm-1)	2291.1 2301.2 2331.5 2331.5 2331.5 2331.5 2331.6 2332.0 2332.0 2332.0 2332.0 2332.0 2332.0 2332.0 2332.0 2432.0 2432.0 2432.0 2432.0 2432.0 2432.0 2432.0 2432.0 2432.0 2534.0 2534.0 2534.0 2534.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 2535.0 25
Name	×	0.052 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.
Name	c	1300 1300 1300 1300 1300 1300 1300 1300
Name	v (cm ⁻¹ )	1693.6 1713.9 1713.9 1713.9 1713.9 1714.1 1744.3 1744.3 1744.4 1744.5 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1744.6 1825.3 1825.3 1825.3 1825.3 1825.3 1825.3 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 1937.7 19
Name	<u>_</u>	0.025 0.027 0.027 0.027 0.027 0.028 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039
Name	_ c	1339 1339 1339 1339 1339 1339 1339 1339
Name	v (cm ⁻¹ )	1311.7 1311.7 1311.7 1323.3 1323.3 1323.3 1323.3 1323.3 1323.3 1323.3 1333.3 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 1340.4 13
New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   Care   New York   New York   Care   New York   New	<u></u>	0000 0000 0000 0000 0000 0000 0000 0000 0000
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TABLE 13E  $H_2$ O:C $H_4 = 20:1 \text{ AT } 120 \text{ K}$ 

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n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         x         √ (	<u> </u>	0.0022 0.0023 0.0023 0.0023 0.0023 0.0023 0.0033 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023	0.020
n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         x         ∞ (	-	1305 1305 1305 1305 1306 1306 1306 1317 1317 1317 1317 1317 1317 1317 131	1.366
n         k         v (cm-1)         n         k         v (cm-1)         n           1.512         0.000         1019.5         1.28         0.000         1311.7         1.34           1.524         0.000         1028.8         1.266         0.000         1311.7         1.34           1.524         0.000         1045.5         1.264         0.000         137.5         1.34           1.542         0.000         1062.9         1.277         0.001         132.3         1.34           1.557         0.007         1062.9         1.277         0.001         132.3         1.34           1.557         0.010         1002.9         1.202         0.003         133.1         1.34           1.575         0.029         1007.6         1.29         0.004         134.8         1.39         1.34           1.576         0.029         1007.6         1.29         0.003         133.1         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         1.34         <	v (cm ⁻¹ )	10953.0 1703.8 1713.8 1734.1 1734.1 1734.1 1734.1 1734.1 1734.1 1734.1 1734.8 1734.8 1734.8 1734.8 1815.1 1815.1 1815.1 1815.1 1815.2 1825.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1835.3 1	2270.9 2281.0
n         k         v(cm ⁻¹ )         n         k         v(cm ⁻¹ )           1.512         0.000         1019.5         1.28         0.000         1311.7           1.525         0.000         1008.8         1.286         0.000         1314.6           1.534         0.000         1008.8         1.284         0.000         1314.6           1.534         0.000         1004.5         1.284         0.000         1311.7           1.547         0.009         1062.2         1.271         0.001         1320.4           1.551         0.009         1060.2         1.287         0.000         1323.3           1.581         0.009         1060.2         1.286         0.003         1331.9           1.581         0.009         1071.5         1.289         0.003         1331.7           1.581         0.023         1080.2         1.298         0.003         1331.7           1.581         0.036         1141.0         1.311         0.003         134.8           1.600         1141.0         1.311         0.003         134.8         1.326.1           1.601         1.006         1141.0         1.311         0.003         134.8 <td>يد ا</td> <td>0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025</td> <td>0.059 0.058</td>	يد ا	0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025	0.059 0.058
n         k         v (cm ⁻¹ )         n         k         v           1.512         0.000         1019.5         1.238         0.000           1.522         0.000         1038.1         1.248         0.000           1.522         0.000         1038.1         1.248         0.000           1.524         0.000         1038.1         1.248         0.000           1.542         0.000         1045.2         1.274         0.000           1.547         0.009         1062.9         1.277         0.003           1.551         0.019         1062.9         1.277         0.003           1.552         0.009         1062.9         1.277         0.003           1.551         0.019         1062.9         1.277         0.003           1.552         0.023         1080.9         1.291         0.003           1.551         0.039         1106.3         1.298         0.003           1.650         0.060         1141.0         1.311         0.005           1.651         0.079         1149.7         1.323         0.006           1.650         0.060         1114.0         1.311         0.006	=	1344 1344 1344 1355 1355 1355 1355 1355	1.327
n         k         v (cm-1)         n           1.512         0.000         1019.5         1.248           1.522         0.000         1038.1         1.248           1.522         0.000         1038.1         1.248           1.532         0.000         1036.8         1.256           1.547         0.009         1062.9         1.277           1.551         0.009         1067.2         1.281           1.552         0.009         1067.2         1.281           1.547         0.009         1067.2         1.271           1.551         0.013         1062.9         1.271           1.552         0.009         1067.0         1.281           1.554         0.023         1080.2         1.271           1.557         0.023         1080.9         1.291           1.557         0.039         1149.7         1.323           1.656         0.108         1141.0         1.31           1.657         0.121         1.149.7         1.324           1.656         0.108         1167.0         1.324           1.656         0.108         1175.7         1.323           1.656	v (cm ⁻¹ )	1311.7 1320.4 1320.4 1320.4 1320.4 1320.4 1320.4 1320.4 1320.4 1320.4 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 1340.5 13	1673.4
Name	<u></u>	0.000000000000000000000000000000000000	0.043
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n 1512 1522 1523 1524 1525 1527 1527 1527 1527 1527 1528 1620 1620 1630 1630 1630 1630 1630 1630 1630 163	v (cm ⁻¹ )	1019.5. 1025.5. 1036.8. 1036.8. 1036.8. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7. 1036.7	1305.9 1308.8
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v (cm-1) 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3 307.3	ď		
	v (cm ⁻¹ )	5.30.0.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	1002.1 1010.8

TABLE 13F H₂O:CH₄ = 20:1 at 140 K

V(max)   18												_			_			_										_										_
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	×	0.026 0.022 0.018	0.014	0.009	0.005	0.002	0.00	0000	0.000	0.00	0.00	0.000	900	0.000		0.000	900	0.00	000	0.000	000	0.000	00.00	0.00	000	0.000		0.00	000	0.000	0.00	0.00	0.00	0.00	0.00			
Name	u u	1.058	1.078	1.095	1.110	1.124	1.137	1.142	1.153	1.158	1.167	1.171	1.178	1.182	1.188	1.191	1.194	1.199	1.202	1.206	1.208	1.212	1.214	1.218	1.220	1.223	1.225	1.228	1.229	1.231	1.234	1.235	1.236	1.238	007:1			
Name	v (cm ⁻¹ )	3542.5 3551.2 3559.9	3568.6 3577.2	3585.9	3603.3	3620.6	3638.0	3646.7	3664.1	3672.7	3690.1	3698.8	3716.1	3724.8	3742.2	3750.9	3759.5	3776.9	3785.6	3802.9	3811.6	3829.0	3837.7	3855.0	3863.7	3881.1	3899.7	3907.1	3915.8	3933.1	3941.8	3959.2	3967.9 3976.5	3985.2	7.5.7.5			
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	×	0.117 0.125 0.132	0.141	0.160	0.228	0.311	0.396	0.435	0.509	0.542	0.602	0.632	0.687	0.712	0.732	0.752	0.745	0.700	0.666	0.592	0.557	0.498	0.473	0.431	0.410	0.368	0.342	0.288	0.258	0.197	0.16/	0.118	0.097	0.067	0.046	0.038		
Name	c	1.723	1.742	1.754	1.782	1.790	1.775	1.760	1.718	1.693	1.636	1.605	1.530	1.486	1.435	1.319	1.258	1.146	1.103	. 1 4	1.025	1.00	0.990	0.970	0.959	0.935	0.924	0.908	0.903	96.9	0.911	0.935	0.949	0.980	1.009	1.023		
Name	v (cm ⁻¹ )	3085.4 3088.3 3091.2	3094.0 3096.9	3099.8	3117.2	3134.6	3151.9	3160.6	3178.0	3186.6	3204.0	3212.7	3230.0	3238.7	3247.4	3264.8	3273.4	3290.8	3299.5	3316.8	3325.5	3342.9	3351.6	3368.9	3377.6	3395.0	3403.6	3421.0	3429.7	3447.0	3464.4	3473.1	3481.8	3499.1	3516.5	3525.2		
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	4	0.001	0.003	0.005	0.008	0.012	0.013	0.014	0.016	0.017	0.018	0.019	0.020	0.023	0.024	0.026	0.028	0.031	0.033	0.037	0.039	0.042	0.043	0.045	0.047	0.050	0.052	0.057	0.059	0.065	0.008	0.076	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.088	0.099	0.105		
Comp.   n			1.492	1.504	1.518	1.533	1.538	1.541	1.546	1.549	1.554	1.557	1.562	1.565	1.569	1.575	1.578	1.585	1.588	1.594	1.597	1.602	1.605	1.613	1.617	1.626	1.631	1.640	25.0	1.656	1.667	1.672	1.679	1.691	1.703	1.710		
Name	v (cm ⁻¹ )	2858.2 2868.4 2878.5	2888.6 2898.7	2908.9	2929.1	2949.4	2955.2	2958.1	2963.8	2966.7	2972.5	2975.4	2981.2	2984.1	2987.0	2992.8	2995.7	3001.5	3004.3	3010.1	3013.0	3018.8	3021.7	3027.5	3030.4	3036.2	3039.1	3044.9	3047.7	3053.5	3059.3	3062.2	3065.1 3068.0	3070.9	3076.7	3079.6 3082.5		
Chemit   n	×	0.016 0.016 0.015	0.014	0.012	0.010	0.000	0.008	0.008	0.007	0.006	0.00	0.005	0.00	0.00	0.00	0.003	0.003	0.002	0.002	0.001	0000	0.000	0.00	0.000	0.00	0.000	000	0.000	000	0.00	000	0.000	0.00	0.000	0.000	0.000		
Name	-	1.367	1.369	1.370	1.371	1.373	1.376	1.377	1.379	1.380	1.382	1.383	1.386	1.387	1.388	1.391	1.393	1.396	1.397	1.401	1.403	1.406	1.408	1.412	1.415	1.419	1.421	1.426	1.429	1.434	1.43	1.443	1.447	1.454	1.462	1.466		
Comp.   No.   No.   Com.   No.   N	v (cm ⁻¹ )						2392.4 2402.5	2412.6	2432.9	2443.0	2463.3	2473.4	2463.3	2503.8	2513.9	2534.2	2544.3	2564.5	2574.7	2594.9	2605.1	2625.3	2635.4	2655.7	2665.8	2686.1	2696.2	2716.5	2726.6	2746.8	2767.1	2777.2	2787.3 2797.5	2807.6	2827.8	2838.0 2848.1		
Com. ¹   n	<b>×</b>	0.054 0.050 0.045	0.038	0.025	0.016	0.010	0.007	0.007		0.00	0.002	0.002	0.00	0.002	0.007	0.002	0.002	0.00	0.00	0.002	0.002	0.002	0.002	0.00	0.005	0.00	0.00	0.00	0.010	0.013	0.015	0.018	0.020	0.023	0.023	0.022	0.020	U.V.D
Name	e e	1.317 1.313 1.309	1.307	1.309	1.314	1.319	1.325	1.327	1.332	1.334	1.337	1.340	1.343	1.345	1.340	1.349	1.351	1.354	1.355	1.358	1.359	1.362	1.364	1.367	1.368	1.370	1.372	1.374	1.375	1.376	1.377	1.377	1.375	1.374	1.371	1.368	1.367	1.30
Name	v (cm ⁻¹ )	1693.6 1703.8 1713.9	1724.0	1744.3	1764.5	1784.8	1805.0	1815.1	1835.4	1845.5	1865.8	1875.9	1896.2	1906.3	1916.4	1936.7	1946.8	1967.1	1977.2	1997.4	2007.6	2027.8	2037.9	2058.2	2068.3	2088.6	2098.7	2119.0	2129.1	2149.3	2159.5	2179.7	2200.0	2210.1	2230.4	2240.5	2260.7	U.1627
Cem-1, n         k         V (cm-1)         n         k (cm-1)         n         v (cm-1)         n         sort         n         sort         n         p (cm-1)         n         p (cm-	   	0.027 0.026 0.025	0.025 0.024	0.024	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.031	0.033	0.034	0.036	0.038	0.038	0.041	0.00 E & E	0.042	0.046	0.048	0.030	0.052	0.055	0.057	0.058	0.055 0.055	0.057	0.00
CGM-1         n         k         v (cm ⁻¹ )         n         k           507.3         1.508         0.000         1019.5         1.238         0.000           537.4         1.524         0.002         1028.1         1.248         0.000           537.4         1.524         0.002         1036.8         1.256         0.000           537.4         1.530         0.002         1045.5         1.264         0.000           550.7         1.543         0.009         1062.9         1.276         0.001           559.4         1.532         0.013         1062.9         1.276         0.003           558.4         1.572         0.003         1062.9         1.276         0.003           559.4         1.572         0.013         1080.2         1.289         0.003           558.4         1.572         0.023         1088.9         1.290         0.003           559.4         1.572         0.023         1088.9         1.290         0.003           559.4         1.572         0.023         1088.9         1.290         0.003           560.2         1.640         0.133         1114.9         1.305         0.003	c	1.341 1.342 1.344	1.345	346	1.348	1.349	1.350	1.351	1.352	1.352	1.352	1.353	1.354	1.353	1.354	1.354	1.354	1.355	1.355	1.355	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.355	1.355	1.353	1.353	1.352	1.349	1.345	1.340	1.337	1.331	1.322
Cenr ⁻¹ )         n         k         v (cm ⁻¹ )         n           597.3         1.508         0.000         1019.5         1.238           516.0         1.517         0.000         1028.1         1.248           533.4         1.524         0.002         1036.8         1.256           539.4         1.530         0.002         1045.5         1.248           559.4         1.530         0.002         1046.5         1.241           559.4         1.532         0.002         1062.9         1.276           5568.1         1.558         0.013         1071.5         1.281           5568.1         1.558         0.002         1062.9         1.276           5568.1         1.558         0.002         1062.9         1.276           5568.1         1.558         0.002         1062.9         1.276           5568.1         1.579         0.003         1062.9         1.276           566.2         1.660         0.023         1097.6         1.281           566.2         1.661         0.038         1114.9         1.31           567.2         1.644         0.139         1114.4         1.326 <t< td=""><td>v (cm⁻¹)</td><td>1311.7 1314.6 1317.5</td><td>1320.4</td><td>1326.2</td><td>1331.9</td><td>1337.7</td><td>1343.5</td><td>1346.4</td><td>1352.2</td><td>1355.1</td><td>1360.9</td><td>1363.8</td><td>1369.6</td><td>1372.5</td><td>1378.2</td><td>1381.1</td><td>1384.0</td><td>1389.8</td><td>1392.7</td><td>1398.5</td><td>1410.1</td><td>1430.3</td><td>1440.4</td><td>1460.7</td><td>1470.8</td><td>1491.1</td><td>1501.2</td><td>1521.5</td><td>1531.6</td><td>1551.8</td><td>1572.1</td><td>1582.2</td><td>1592.4</td><td>1612.6</td><td>1632.9</td><td>1643.0</td><td>1663.2</td><td>1003.3</td></t<>	v (cm ⁻¹ )	1311.7 1314.6 1317.5	1320.4	1326.2	1331.9	1337.7	1343.5	1346.4	1352.2	1355.1	1360.9	1363.8	1369.6	1372.5	1378.2	1381.1	1384.0	1389.8	1392.7	1398.5	1410.1	1430.3	1440.4	1460.7	1470.8	1491.1	1501.2	1521.5	1531.6	1551.8	1572.1	1582.2	1592.4	1612.6	1632.9	1643.0	1663.2	1003.3
(cm-1)         n         k         v (cm-1)           507.3         1.508         0.000         100.68           516.0         1.517         0.000         1028.1           524.7         1.524         0.002         1056.8           533.4         1.530         0.002         1056.8           559.4         1.532         0.003         1054.2           558.1         1.530         0.002         1054.2           558.4         1.532         0.013         1071.5           568.1         1.58         0.017         1062.9           585.4         1.572         0.029         1062.0           602.8         1.58         0.017         1064.2           602.8         1.610         0.067         1141.0           662.8         1.610         0.067         1141.0           663.9         1.63         0.039         1087.6           663.6         1.641         0.121         1175.7           663.6         1.644         0.139         1116.3           663.7         1.644         0.139         1134.4           663.8         1.641         0.106         1117.0           663.8	 	0000	0.000	0.001	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.006	0000	0.008	0.00	0.008	900	0.00	0.00	0.010	0.010	0.011	0.011	0.012	0.012	0.012	0.013	0.014	0.014	0.016	0.017	0.018	0.019	0.021	0.026	0.030 0.038	0.045	4:U34
(cmr ⁻¹ )         n         k         v           507.3         1.508         0.000         516.0         1.508         0.000           524.7         1.524         0.002         532.4         1.524         0.002           532.4         1.530         0.002         5559.4         1.532         0.013           558.4         1.532         0.013         0.009         558.4         1.552         0.013           568.1         1.539         0.007         1.543         0.009         0.023         385.4         1.000         0.023           588.4         1.572         0.013         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002 </td <td>   -</td> <td>1.238 1.248 1.256</td> <td>1.264</td> <td>1.276</td> <td>1.286</td> <td>1.294</td> <td>1.301</td> <td>1.305</td> <td>1.312</td> <td>1.314</td> <td>1.320</td> <td>1.324</td> <td>1.329</td> <td>1.331</td> <td>1.333</td> <td>1.333</td> <td>1.334</td> <td>1.335</td> <td>1.336</td> <td>1.338</td> <td>1.339</td> <td>1.342</td> <td>1.341</td> <td>1.343</td> <td>1.343</td> <td>1.345</td> <td>1.346</td> <td>1.347</td> <td>1.348</td> <td>1.350</td> <td>1.352</td> <td>1.352</td> <td>1.355</td> <td>1.356</td> <td>1.359</td> <td>1.350</td> <td>1.350</td> <td>1.33%</td>	  -	1.238 1.248 1.256	1.264	1.276	1.286	1.294	1.301	1.305	1.312	1.314	1.320	1.324	1.329	1.331	1.333	1.333	1.334	1.335	1.336	1.338	1.339	1.342	1.341	1.343	1.343	1.345	1.346	1.347	1.348	1.350	1.352	1.352	1.355	1.356	1.359	1.350	1.350	1.33%
(cm ⁻¹ ) n 507.3 1.508 5324.7 1.224 5324.7 1.224 5324.7 1.234 5324.1 1.538 558.4 1.530 568.8 1.566 660.2 1.579 660.2 1.581 660.2 1.691 663.7 1.543 663.6 1.641 663.7 1.644 663.7 1.644 66	v (cm ⁻¹ )	1019.5 1028.1 1036.8	1045.5	1062.9	1080.2	1097.6	1114.9	1123.6	1141.0	1149.7	1167.0	1175.7	1193.1	1201.7	1207.5	1210.4	1213.3	1219.1	1222.0	1227.8	1230.7	1236.5	1239.4	1245.1	1248.0	1253.8	1256.7	1262.5	1265.4	1271.2	1277.0	1279.9	1282.8	1288.5	1294.3	1297.2	1303.0	1300.0
(cm-1) 507.3 516.0 524.7 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4 525.4	<u>k</u>	0.000	0.002	0.009	0.017	0.029	0.042	0.049	0.067	0.078	0.106	0.121	0.161	0.183	0.233	0.260	0.287	0.338	0.361	0.404	0.418	0.439	0.445	0.444	0.438	0.417	0.400	0.358	0.332	0.270	0.198	0.161	0.096	0.070	0.030	0.009	0.003	33.5
V (cm ⁻¹ )           507.3           507.3           516.0           524.7           533.4           542.0           559.4           550.7           559.4           559.4           560.8           601.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           602.8           603.6           603.6           604.7           704.1           705.0           706.4           883.7           884.7           889.3           889.3           889.3           889.4           889.7           889.7           884.7           88	l =	1.508 1.517 1.524	1.530 1.538	1.543	1.558	1.572	1.585	1.593	1.610	1.618	1.634	25.2	1.651	1.653	1.650	1.645	1.635	1.603	1.583	1.533	1.503	1.441	1.407	1.339	1.306	1.242	1.211	1.155	1.132	1.093	1.002	1.075	1.081	1.106	4.	1.180	1.197	1.440
	v (cm ⁻¹ )	507.3 516.0 524.7	533.4 542.0	550.7	568.1	585.4	602.8	620.2	628.8	637.5	624.9	663.6	6.089	9.689	707.0	715.6	733.0	741.7	750.4	7.67.7	776.4	793.8	802.5	819.8	828.5	845.9	854.5	871.9	880.6 889.3	897.9	906.0	924.0	932.7	950.0	967.4	976.1	993.4	1010.0

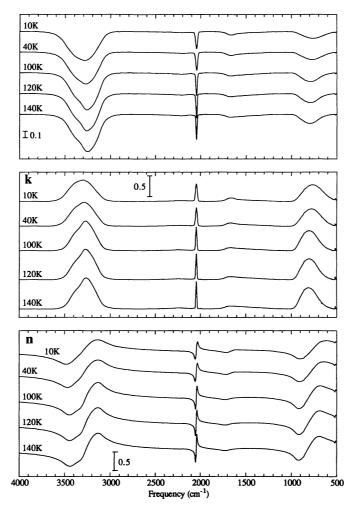


FIG. 14.—The 4000 to  $500 \text{ cm}^{-1}$  transmission spectra and optical constants (n and k) of an H₂O:OCS = 20:1 ice mixture at temperatures of 10, 40, 100, 120, and 140 K. The original ice was deposited at 10 K.

TABLE 14A  $H_2$ O:OCS = 20:1 AT 10 K

×	910	0.016	015	0.015	210.	0.015	210.	510.	210.0	710	710	7100	710.	0.017	0.017	0.017	0.018	0.018	0.018	0.018	0.018	810.	0.019	0.019	0.019	0.019	0.019	0.019	0.021	0.019	020	020	0.020	920	020.0	070	020	200	020	0.019	610.	710.0	0.017	017	0.016	010.0	210.0	013	.013	0.013	0.013	0.012	0.012	710	
u	281 0		294					313 0	0 515		320	_ `		323 0		•	_	_	.328		_		.331 0	.332 0	~	.333 0	.333 0	.334 0	.335 0	.335 0	335 0	.335	.336	336	336	227	337	337		.339	.339	_	_ _ ,	_ ,	4.5	245	24.2	343	.345	.346	.346	347	% % % %	645	:
(cm ⁻¹ )	0.0	2.9	8.7	1.6	0.4 0.4 1	0.3	3.2	1.0	0.6	7.7	-:- -:-	0.7	 	4.7	5.0	7.6	2.1	5.0	7.9	0.8	3.7 1	6.6	9.5	2.4	5.3 1	8.1 1	1.0	3.9	6.8	9.7	2.6	5.5	8.4	5.1	7.7	1.7	7.7	17	8.9	2236.1	3.4	0.6	7.8	5.1	1 5 020		0.0	1.2	8.5	5.7	2.9	2.5	4. 4 4. 4	0.0	<u>:</u>
v (cr	8	2092.9	8	2101.6	2104.5	211	2113	511	717	217	212	717	77	213	75	212	214	214	214	2150.	215	215	2159.5		_	2168	217		_	2179.7			218	_		712	2207.	15	222	_		225	2257.8	726	2272.	77	2200.	33 -	2308.	231	2322	2330.	23.5	2351	<u> </u>
k	0.003	0.003	0.003	0.003	0.00	0.003	0.003	0.003	0.003	3 6	35	3 6	3.5	0.003	0.00	0.00	0.003	0.003	0.003	0.003	0.0 20.0	0.00	0.007	0.00	0.00	0.00	0.007	0.00	0.00	0.005	0.007	0.008	0.011	0.017	0.030	20.0	120	0 194	0.266	0.334	0.389	0.417	0.412	0.371	0.302	0.224	0.133	0.055	0.034	0.024	0.020	0.017	0.016	0.01	;
п	1.364	1.365	1.368	1.369	1.370	1.372	1.374	1.375	1.3//	1,2/6	1.379	1.381	1.383	1.386	1.38/	1.389	1.391	1.394	1:396	1.399	1.403	1.406	1.409	1.412	1.414	1.417	1.421	1.427	1.434	1.442	1.453	1.465	1.480	1.498	1.520	4 5	1.570	1.563	1.575	1.532	1.465	1.380	1.289	1.206	1.146	1.118	1.13	190	1.189	1.213	1.233	1.247	1.258	1 274	į
v (cm ⁻¹ )	1919.3	1922.2	1928.0	1930.9	1935.8	1939.6	1942.5	1945.4	1948.2	1.1541	1934.0	1930.7	0.4041	1967.	1903.0	1968.5	1971.4	1974.3	1977.2	1980.1	1983.0	1985.9	1988.8	1991.6	1994.5	1997.4	2000.3	2003.2	2006.1	2009.0	2011.9	2014.8	2017.7	2020.6	2023.5	2020.4	2029.5	2035.0	2037.9	2040.8	2043.7	2046.6	2049.5	2052.4	2055.3	2028.2	2064.0	2066.9	2069.8	2072.7	2075.6	2078.4	2081.3	2087	-
ĸ	0.039	0.041	0.042	9.04	0.046	0.08	0.051	0.052	450.0	0.033	V.U.V	700.0	0.00	0.075	0.080	0.086	0.087	0.089	0.089	0.087	0.085	0.081	0.077	0.071	0.064	0.056	0.045	0.038	0.031	0.025	0.022	0.018	0.015	0.013	0.012	0.010	80.0	000	0.00	0.005	0.00	0.00	90.0	90.0	3 5	3 3	3 8	9	0.00	0.002	0.002	0.002	0.00		;
u	1.365	1.366	1.366	1.367	1.366	1.368	1.367	1.369	1.369	1.309	1.309	1.370	1.3/1	1.369	405.	1.358	1.350	1.344	1.335	1.328	1.320	1.312	1.306	1.302	1.297	1.294	1.293	1.294	1.296	1.300	1.304	1.308	1.311	1.315	1.318	1.322	1.324	1 320	1.331	1.335	1.336	1.339	1.34	4	346	1.34	1351	1.354	1.355	1.358	1.359	1.360	1.361	1.363	;
v (cm ⁻¹ )	1517.1	1524.4	1538.8	1546.1	1553.3	1567.8	1575.0	1582.2	1589.5	1.090.7	7.CUOI 7.11.21	1011.2	1018.4	1625.6	1632.9	1640.1	1647.3	1654.6	1661.8	1669.0	1676.3	1683.5	1690.7	1698.0	1705.2	1712.4	1719.7	1726.9	1734.1	1741.4	1748.6	1755.8	1763.1	1770.3	1777.5	8.4.8	0.76/1	1806.5	1813.7	1820.9	1828.2	1835.4	1842.6	1849.9	1857.1	1804.3	1878 8	1886.0	1893.3	1901.9	1904.8	1907.7	1910.6	19164	:
×	800.0	0.008	0.008	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.014	0.014	0.014	0.016	0.016	0.018	0.018	0.018	0.020	0.020	0.020	0.022	0.022	0.024	0.024	920.0	0.020	0.026	0.028	0.028	0.027	0.029	0.029	0.029	0.029	0.031	0.032	0.032	0.032	0.034	0.034	0.036	0.037	·
u	1.326	1.327	1.329	1.330	1.331	1.331	1.333	1.333	1.333	1.334	226.1	1.330	1.330	1.336	1.338	1.337	1.338	1.338	1.339	1.340	1.341	1.342	1.343	1.345	1.345	1.346	1.348	1.348	1.349	1.350	1.350	1.352	1.352	1.352	1.354	1.353	1.354	1 355	1.356	1.357	1.357	1.358	1.358	1.359	1.359	300	360	1.361	1.362	1.362	1.363	1.363	1.363	36.4	}
v (cm ⁻¹ )	1184.4	1187.3	1193.1	1196.0	1198.8	1204.6	1207.5	1210.4	1213.3	1210.2	1.417.1	1222.0	727.9	1227.8	1230.7	1233.6	1236.5	1239.4	1242.2	1245.1	1248.0	1256.7	1263.9	1271.2	1278.4	1285.6	1292.9	1300.1	1307.3	1314.6	1321.8	1329.1	1336.3	1343.5	1350.8	1358.0	1377.5	13797	1386.9	1394.2	1401.4	1408.6	1415.9	1423.1	1430.3	1437.6	1452.0	1459.3	1466.5	1473.7	1481.0	1488.2	1495.4	15009	:
- - -	0.00	0.00	0.00	0.001	0.00	0.00	0.002	0.002	0.002	700.0	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.002	7000	2000	200.0	0.005	0.005	0.005	0.005	0.005	0.005	0.002	00.00	800	0.005	0.008	0.008	0.008	0.00	880	2000
F	1.242	1.246	1.252	1.255	1.257	1.262	1.263	1.265	1.267	1.209	1.2/1	1.2.12	0/7:1	1.277	1.278	1.279	1.282	1.284	1.285	1.287	1.288	1.289	1.291	1.292	1.293	1.295	1.296	1.297	1.298	1.300	1.301	1.302	1.304	1.305	1.306	1.307	1.308	1.210	1312	1.313	1.313	1.314	1.315	1.316	1.317	1.318	1.319	1321	1.322	1.324	1.323	1.324	1.324	1.325	1.040.1
v (cm ⁻¹ )	1013.7	1016.6	1022.3	1025.2	1028.1	1033.9	1036.8	1039.7	1042.6	1045.5	1048.4	1031.3	1054.2	1057.1	1060.0	1062.9	1065.7	1068.6	1071.5	1074.4	1077.3	1080.2	1083.1	1086.0	1088.9	1091.8	1094.7	1097.6	1100.5	1103.4	1106.3	1109.1	1112.0	1114.9	1117.8	1120.7	1123.6	1120.3	1132.3	1135.2	1138.1	1141.0	1143.9	1146.8	1149.7	1152.6	1155.4	11612	1164.1	1167.0	1169.9	1172.8	1175.7	11/8.0	1
×	0.312	0.307	0.298	0.294	0.295	0.271	0.262	0.252	0.244	0.235	0.730	0.221	0.212	0.203	0.198	0.190	0.181	0.176	0.168	0.159	0.150	0.146	0.137	0.129	0.120	0.112	0.108	0.099	0.095	0.087	0.083	0.075	0.067	0.063	0.056	0.052	0.05	0.04	0.03	0.027	0.027	0.023	0.020	0.016	0.017	0.013	0.010	0.00	0.007	0.007	0.00	90.00	9.5	25	
L C	1.189	1.186	1.179	1.171	1.163	4	1.140	1.140	1.137	1.135	42:	1.130	1.128	1.128	1.126	1.124	1.125	1.123	1.121	1.121	1.122	1.123	1.122	1.123	1.124	1.127	1.128	1.130	1.133	1.136	1.138	1.141	1.145	1.147	1.150	1.155	651.1	1.16	171	1.176	1.181	1.186	1.191	1.194	1.198	1.202	1.208	1 2 16	1.220	1.225	1.227	1.231	1.235	1 240	2.4.1
v (cm ⁻¹ )	843.0	845.9	851.6	854.5	857.4	863.2	866.1	0.698	871.9	8/4.8	7.1.00	880.6	883.5	886.4	889.3	892.1	895.0	897.9	8.006	903.7	906.6	909.5	912.4	915.3	918.2	921.1	924.0	926.9	929.8	932.7	935.5	938.4	941.3	24.5	247.1	950.0	932.9	058.7	961.6	964.5	967.4	970.3	973.2	976.1	978.9	981.8	7.486	2000	993.4	996.3	999.2	1002.1	1005.0	1010.9	200
k	0.277	0.281	0.296	0.304	0.308	0.316	0.324	0.327	0.331	0.339	0.343	0.548	0.352	0.356	0.361	0.365	0.369	0.370	0.374	0.379	0.383	0.384	0.385	0.385	0.390	0.390	0.395	0.395	0.392	0.397	0.398	0.394	0.395	0.396	0.392	0.392	0.393	0.390	0 387	0.383	0.380	0.380	0.376	0.373	0.370	0.365	0.361	0.357	0.350	0.341	0.337	0.333	0.328	0.325	2100
ď	1	1.590																																																					
v (cm ⁻¹ )	672.2	675.1	680.9	683.8	686.7	692.5	695.4	698.3	701.2	1.5	5.5 5.0	6,67	717.8	715.6	718.5	721.4	724.3	727.2	730.1	733.0	735.9	738.8	741.7	744.6	747.5	750.4	753.3	756.2	759.0	761.9	764.8	7.797	770.6	773.5	776.4	5.67	787.7	788.0	790.9	793.8	796.7	799.6	802.5	805.3	808.2	811.1	814.0	819.8	822.7	825.6	828.5	831.4	834.3	840.1	•
×	┿	0.028	0.042	0.072	0.072	0.053	0.048	0.037	0.046	0.040	0.040	0.034	0.034	0.058	0.062	0.066	0.066	0.074	0.074	0.078	980.0	060:0	0.089	0.093	0.097	0.105	0.104	0.112	0.116	0.124	0.127	0.131	0.134	0.138	0.141	0.145	0.132	30.0	0 167	0.178	0.182	0.189	0.193	0.200	0.204	0.211	0.218	0220	0.237	0.244	0.248	0.251	0.259	0.20/	
=	1	1.597																																															1.613				1.602		
(cm-1)	N.	4.11	12	- 9	و و	, œ	7	بب		4.0		- 5	) ) (	6; ;	×.	0.7	3.6	6.5	9.4	2.3	5.2	8.1	1.0	3.9	8.9	7.6	2.5	5.4	8.3	1.2	4.1	7.0	6.6		5.7	٠ و و	 	† r	20	3.1	0.9	80	1.7	4.6	7.5	0.4	ن د د	7.0	2.0	6.4	8.7	0.7		6,000.5	1.77

TABLE 14A—Continued

ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2359.1	1.350	0.011	2771.4	1.409	0.003	3183.7	1.620	0.328	3596.1	1.081	0.026
2366.3	1.351	0.011	2778.7	1.411	0.002	3191.0	1.611	0.347	3603.3	1.089	0.022
2373.6	1.351	0.011	2785.9	1.413	0.003	3198.2	1.600	0.365	3610.5	1.097	0.018
2380.8	1.352	0.009	2793.1	1.414	0.002	3205.4	1.588	0.382	3617.8	1.104	0.016
2388.0	1.353	0.009	2800.4	1.417	0.002	3212.7	1.575	0.399	3625.0	1.112	0.014
2395.3	1.354	0.009	2807.6	1.418	0.002	3219.9	1.560	0.414	3632.2	1.118	0.012
2402.5	1.355	0.009	2814.8	1.421	0.003	3227.1	1.544	0.428	3639.5	1.124	0.010
2409.7	1.355	0.009	2822.1	1.423	0.003	3234.4	1.528	0.443	3646.7	1.128	0.009
2417.0	1.356	0.008	2829.3	1.425	0.003	3241.6	1.510	0.455	3653.9	1.133	0.008
2424.2 2431.4	1.357 1.358	0.008	2836.5 2843.8	1.427 1.429	0.003	3248.8	1.491 1.472	0.467	3661.2	1.137	0.005
2431.4	1.359	0.008	2851.0	1.429	0.003	3256.1 3263.3	1.472	0.476 0.486	3668.4 3675.6	1.142 1.147	0.003
2436.7	1.359	0.008	2858.2	1.434	0.003	3270.5	1.430	0.494			0.000
2453.1	1.360	0.008	2865.5	1.434	0.002	3277.8	1.430	0.494	3682.9 3690.1	1.153 1.157	0.000
2460.4	1.361	0.007	2872.7	1.439	0.002	3285.0	1.387	0.505	3697.3	1.160	0.000
2467.6	1.362	0.007	2879.9	1.443	0.002	3292.2	1.364	0.508	3704.6	1.164	0.000
2474.8	1.363	0.007	2887.2	1.446	0.002	3299.5	1.342	0.509	3711.8	1.168	0.000
2482.1	1.363	0.007	2894.4	1.449	0.003	3306.7	1.320	0.507	3719.0	1.172	0.000
2489.3	1.364	0.007	2901.6	1.451	0.004	3313.9	1.299	0.505	3726.3	1.175	0.000
2496.6	1.365	0.006	2908.9	1.452	0.005	3321.2	1.278	0.502	3733.5	1.179	0.000
2503.8	1.366	0.006	2916.1	1.455	0.004	3328.4	1.259	0.498	3740.7	1.183	0.000
2511.0	1.367	0.006	2923.3	1.460	0.003	3335.6	1.240	0.492	3748.0	1.186	0.000
2518.2	1.368	0.006	2930.6	1.465	0.003	3342.9	1.222	0.485	3755.2	1.189	0.000
2525.5	1.368	0.006	2937.8	1.469	0.004	3350.1	1.204	0.480	3762.4	1.192	0.000
2532.7	1.369	0.005	2945.0	1.473	0.004	3357.3	1.187	0.474	3769.7	1.194	0.000
2540.0	1.370	0.005	2952.3	1.478	0.004	3364.6	1.169	0.467	3776.9	1.196	0.000
2547.2	1.371	0.005	2959.5	1.484	0.005	3371.8	1.153	0.459	3784.1	1.199	0.000
2554.4	1.372	0.005	2966.7	1.489	0.006	3379.0	1.136	0.450	3791.4	1.202	0.000
2561.7	1.373	0.005	2974.0	1.494	0.007	3386.3	1.119	0.442	3798.6	1.204	0.000
2568.9	1.374	0.005	2981.2	1.500	0.009	3393.5	1.103	0.431	3805.8	1.206	0.000
2576.1	1.375	0.005	2988.4	1.507	0.011	3400.7	1.086	0.419	3813.1	1.208	0.000
2583.4	1.376	0.004	2995.7	1.513	0.012	3408.0	1.070	0.406	3820.3	1.210	0.000
2590.6	1.377	0.004	3002.9	1.519	0.015	3415.2	1.054	0.392	3827.5	1.212	0.000
2597.8	1.378	0.004	3010.1	1.527	0.018	3422.4	1.040	0.377	3834.8	1.214	0.000
2605.1	1.379	0.004	3017.4	1.534	0.020	3429.7	1.026	0.360	3842.0	1.216	0.000
2612.3	1.380	0.004	3024.6	1.543	0.024	3436.9	1.014	0.343	3849.2	1.218	0.000
2619.5	1.381	0.004	3031.8	1.551	0.028	3444.1	1.004	0.324	3856.5	1.220	0.000
2626.8	1.382	0.003	3039.1	1.560	0.033	3451.4	0.995	0.304	3863.7	1.222	0.000
2634.0	1.383	0.003	3046.3	1.569	0.039	3458.6	0.987	0.284	3870.9	1.223	0.000
2641.2	1.384	0.003	3053.5	1.579	0.046	3465.9	0.981	0.263	3878.2	1.225	0.000
2648.5	1.386	0.003	3060.8	1.588	0.055	3473.1	0.978	0.242	3885.4	1.226	0.000
2655.7	1.387	0.003	3068.0	1.597	0.065	3480.3	0.976	0.221	3892.6	1.228	0.000
2662.9 2670.2	1.388 1.390	0.003 0.003	3075.2 3082.5	1.606 1.615	0.075	3487.6 3494.8	0.977	0.201	3899.9 3907.1	1.229 1.231	0.000
	1.390	0.003		1.622	0.087		0.978	0.182	3907.1		0.000
2677.4 2684.6	1.391	0.003	3089.7 3096.9	1.622	0.100 0.114	3502.0 3509.3	0.982 0.987	0.163 0.146	3914.3	1.233 1.234	0.000
2691.9	1.394	0.003	3104.2	1.635	0.114	3516.5	0.987	0.140	3921.6	1.234	0.000
2691.9	1.394	0.003	3104.2	1.640	0.130	3523.7	1.000	0.130	3936.0	1.233	0.000
2706.3	1.396	0.003	3118.6	1.643	0.140	3531.0	1.008	0.113	3943.3	1.238	0.000
2713.6	1.398	0.003	3125.9	1.646	0.102	3538.2	1.016	0.101	3950.5	1.239	0.000
2720.8	1.399	0.003	3133.1	1.647	0.198	3545.4	1.024	0.078	3957.7	1.240	0.000
2728.0	1.400	0.003	3140.3	1.647	0.136	3552.7	1.033	0.067	3965.0	1.241	0.000
2735.3	1.402	0.003	3147.6	1.646	0.234	3559.9	1.041	0.059	3972.2	1.243	0.000
2742.5	1.403	0.003	3154.8	1.644	0.252	3567.1	1.049	0.051	3979.4	1.244	0.000
2749.7	1.405	0.003	3162.0	1.640	0.272	3574.4	1.057	₩.044	3986.7	1.246	0.000
2757.0	1.406	0.003	3169.3	1.634	0.292	3581.6	1.066	0.038	3993.9	1.247	0.000
2764.2	1.408	0.003	3176.5	1.628	0.310	3588.8	1.074	0.032			2.300
					0.2.20	2230.0		U.U.D.			

TABLE 14B  $H_2$ O:OCS = 20:1 AT 40 K

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TABLE 14B—Continued

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ν (cm ⁻¹ )	n	<u>k</u>	v (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2359.1	1.354	0.012	2771.4	1.417	0.003	3183.7	1.654	0.382	3596.1	1.082	0.018
2366.3 2373.6	1.354 1.354	0.012 0.012	2778.7 2785.9	1.419 1.421	0.002 0.003	3191.0 3198.2	1.641 1.628	0.403 0.424	3603.3 3610.5	1.090 1.097	0.015
2380.8	1.356	0.012	2793.1	1.421	0.003	3205.4	1.613	0.444	3617.8	1.105	0.009
2388.0	1.357	0.011	2800.4	1.424	0.002	3212.7	1.595	0.464	3625.0	1.111	0.008
2395.3	1.358	0.011	2807.6	1.427	0.002	3219.9	1.578	0.481	3632.2	1.118	0.008
2402.5	1.358	0.009	2814.8	1.429	0.002	3227.1	1.558	0.497	3639.5	1.123	0.007
2409.7	1.359	0.011	2822.1	1.431	0.003	3234.4	1.537	0.514	3646.7	1.127	0.006
2417.0	1.360	0.009	2829.3	1.434	0.002	3241.6	1.515	0.530	3653.9	1.131	0.004
2424.2	1.361	0.009	2836.5	1.436	0.002	3248.8	1.491	0.543	3661.2	1.136	0.002
2431.4	1.361	0.009	2843.8	1.438	0.002	3256.1	1.466	0.554	3668.4	1.140	0.000
2438.7	1.362	0.009	2851.0	1.441	0.002	3263.3	1.439	0.564	3675.6	1.146	0.000
2445.9	1.363	0.008	2858.2	1.443	0.002	3270.5	1.411	0.571	3682.9	1.151	0.000
2453.1	1.364	0.008	2865.5	1.446	0.002	3277.8	1.384	0.575	3690.1	1.156	0.000
2460.4	1.365	0.008	2872.7 2879.9	1.449	0.002	3285.0 3292.2	1.356	0.578 0.578	3697.3 3704.6	1.159 1.162	0.000
2467.6 2474.8	1.366 1.366	0.008 0.007	2879.9	1.453 1.456	0.002 0.003	3292.2	1.326 1.299	0.575	3704.6	1.162	0.000
2474.6	1.367	0.007	2894.4	1.460	0.005	3306.7	1.273	0.568	3711.0	1.170	0.000
2489.3	1.368	0.007	2901.6	1.462	0.006	3313.9	1.248	0.561	3726.3	1.173	0.000
2496.6	1.369	0.007	2908.9	1.464	0.005	3321.2	1.224	0.554	3733.5	1.177	0.000
2503.8	1.369	0.007	2916.1	1.467	0.004	3328.4	1.203	0.544	3740.7	1.181	0.000
2511.0	1.371	0.006	2923.3	1.472	0.003	3335.6	1.183	0.532	3748.0	1.184	0.000
2518.2	1.372	0.006	2930.6	1.477	0.002	3342.9	1.163	0.522	3755.2	1.186	0.000
2525.5	1.373	0.006	2937.8	1.481	0.003	3350.1	1.145	0.510	3762.4	1.189	0.000
2532.7	1.374	0.006	2945.0	1.486	0.004	3357.3	1.128	0.500	3769.7	1.192	0.000
2540.0	1.375	0.006	2952.3	1.491	0.004	3364.6	1.111	0.489	3776.9	1.194	0.000
2547.2	1.375	0.005	2959.5	1.497	0.004	3371.8	1.094	0.477	3784.1	1.196	0.000
2554.4	1.377	0.005	2966.7	1.503	0.005	3379.0	1.078	0.466	3791.4	1.199	0.000
2561.7	1.378	0.005	2974.0	1.509	0.006	3386.3	1.061	0.452	3798.6	1.201	0.000
2568.9	1.379	0.005	2981.2	1.515	0.008	3393.5	1.045	0.438	3805.8	1.203 1.205	0.000
2576.1 2583.4	1.380 1.381	0.005 0.005	2988.4 2995.7	1.522 1.529	0.009 0.010	3400.7 3408.0	1.030 1.015	0.424 0.408	3813.1 3820.3	1.203	0.000
2590.6	1.381	0.005	3002.9	1.537	0.013	3415.2	1.000	0.391	3827.5	1.207	0.000
2597.8	1.383	0.004	3010.1	1.545	0.016	3422.4	0.987	0.371	3834.8	1.211	0.000
2605.1	1.384	0.004	3017.4	1.554	0.018	3429.7	0.974	0.350	3842.0	1.213	0.000
2612.3	1:386	0.004	3024.6	1.563	0.021	3436.9	0.964	0.330	3849.2	1.215	0.000
2619.5	1.387	0.004	3031.8	1.573	0.026	3444.1	0.956	0.307	3856.5	1.217	0.000
2626.8	1.388	0.004	3039.1	1.583	0.031	3451.4	0.948	0.285	3863.7	1.218	0.000
2634.0	1.389	0.004	3046.3	1.594	0.037	3458.6	0.945	0.260	3870.9	1.220	0.000
2641.2	1.390	0.003	3053.5	1.606	0.044	3465.9	0.943	0.237	3878.2	1.222	0.000
2648.5	1.391	0.003	3060.8	1.618	0.053	3473.1	0.944	0.215	3885.4	1.223	0.000
2655.7	1.393	0.003	3068.0	1.629	0.064	3480.3	0.946	0.193	3892.6	1.225	0.000
2662.9	1.394	0.003	3075.2	1.641	0.076	3487.6	0.950	0.172	3899.9	1.226	0.000
2670.2	1.396	0.003	3082.5	1.651	0.090	3494.8	0.956	0.152	3907.1	1.228 1.229	0.000
2677.4	1.397	0.003	3089.7	1.661	0.106	3502.0 3509.3	0.964 0.972	0.134 0.117	3914.3 3921.6	1.229	0.000
2684.6 2691.9	1.398 1.400	0.003 0.003	3096.9 3104.2	1.671 1.678	0.122 0.141	3516.5	0.972	0.117	3921.0	1.232	0.000
2699.1	1.400	0.003	3104.2	1.684	0.141	3523.7	0.990	0.103	3936.0	1.232	0.000
2706.3	1.401	0.003	3111.4	1.689	0.182	3531.0	1.001	0.089	3943.3	1.235	0.000
2700.5	1.404	0.003	3125.9	1.692	0.102	3538.2	1.010	0.068	3950.5	1.236	0.000
2720.8	1.406	0.003	3133.1	1.693	0.225	3545.4	1.021	0.059	3957.7	1.238	0.000
2728.0	1.407	0.003	3140.3	1.692	0.247	3552.7	1.030	0.050	3965.0	1.239	0.000
2735.3	1.409	0.003	3147.6	1.690	0.270	3559.9	1.039	0.043	3972.2	1.240	0.000
2742.5	1.410	0.003	3154.8	1.687	0.292	3567.1	1.049	0.037	3979.4	1.241	0.000
2749.7	1.412	0.003	3162.0	1.681	0.316	3574.4	1.057	0.031	3986.7	1.243	0.000
2757.0	1.414	0.003	3169.3	1.674	0.339	3581.6	1.066	0.027	3993.9	1.245	0.000
2764.2	1.415	0.003	3176.5	1.664	0.361	3588.8	1.074	0.022	<u> </u>		

TABLE 14C H₂O:OCS = 20:1 AT 100 K

v (cm ⁻¹ )         n         k           2090.0         2090.0         1.00           2090.8         1.292         0.016           2090.9         1.292         0.016           2098.7         1.305         0.014           2104.5         1.310         0.014           2104.5         1.313         0.014           2104.5         1.319         0.014           2110.3         1.324         0.014           2110.4         1.316         0.014           2110.5         1.329         0.014           2110.1         1.329         0.014           2110.2         1.331         0.015           2113.3         0.015         0.018           2127.6         1.331         0.015           2133.4         0.018         0.018           2145.0         1.344         0.018           2145.1         1.339         0.022           2147.9         1.344         0.018           2156.6         1.345         0.018           2168.1         1.347         0.021           2173.2         1.348         0.022           2173.2         1.349         0.022	356 0.014 358 0.014 358 0.014
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New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York	0.017 0.017 0.017
1.369 1.372 1.373 1.374 1.375 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376 1.376	1.273 1.281 1.286
V (Cm ⁻¹ ) 1928.0 1928.0 1928.1 1928.2 1928.2 1928.2 1938.6 1948.2 1948.2 1948.2 1948.2 1948.2 1948.2 1948.3 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.9 1956.	2081.3 2084.2 2087.1
K	0.003
n   n   n   n   n   n   n   n   n   n	1.366 1.367 1.368
V (cm ⁻¹ )   1531.1   1531.1   1531.1   1531.1   1531.2   1533.8   1540.2   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1560.5   1660.5   1560.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5   1660.5	1910.6 1913.5 1916.4
K	0.047 0.049 0.051
1328 1328 1339 1339 1339 1339 1339 1339 1339 133	1.368 1.367 1.365
CCm ⁻¹   1184.4   1184.4   1184.4   1184.4   1184.4   1184.4   1184.4   1190.2   1190.2   1190.2   1190.2   1190.2   1190.2   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6   1204.6	1495.4 1502.7 1509.9
V	0.008
1223 1223 1223 1223 1223 1223 1223 1223	1.325 1.326 1.327
v (cm-1) 1019.5 1019.5 1019.5 1022.3 1022.3 1022.3 1022.3 1023.9 1031.0 1031.0 1031.0 1031.0 1031.0 1031.0 1032.3 1033.9 1034.5 1042.6 1042.6 1044.4 1062.9 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1063.1 1064.1 1064.1 1065.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1 1067.1	1175.7 1178.6 1181.5
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1.228 1.229 1.229 1.139 1.139 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109 1.109	1.210 1.215 1.219
V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)   V (cm-1)	1005.0 1007.9 1010.8
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V (Cm ⁻¹ )           678.0           678.1           678.1           678.1           688.3           689.6           689.7           689.7           689.8           689.8           689.7           689.8           689.8           689.8           689.8           689.8           689.8           689.8           701.2           701.2           702.3           733.0           733.0           733.0           744.6           744.7           756.2           756.2           756.2           756.2           756.2           756.2           756.2           756.2           756.2           767.4           776.4           776.8           788.0           796.7           796.7           796.8           811.1           811.1           814.0           815.8           818.6           81	834.3 837.2 840.1
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V (Cm-1)  501.4  501.4  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  501.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5  601.5	663.6 666.5 669.4

TABLE 14C—Continued

ν (cm ⁻¹ )	n	k_	v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2359.1	1.359	0.013	2771.4	1.431	0.003	3183.7	1.711	0.497	3596.1	1.084	0.006
2366.3	1.360	0.013	2778.7	1.433	0.002	3191.0	1.691	0.524	3603.3	1.091	0.004
2373.6	1.361	0.013	2785.9	1.436	0.002	3198.2	1.671	0.549	3610.5	1.098	0.003
2380.8	1.361	0.012	2793.1	1.438	0.002	3205.4	1.648	0.574	3617.8	1.104	0.000
2388.0	1.363	0.012	2800.4	1.441	0.002	3212.7	1.625	0.597	3625.0	1.110	0.000
2395.3	1.364	0.012	2807.6	1.442	0.002	3219.9	1.599	0.621	3632.2	1.116	0.000
2402.5	1.365	0.011	2814.8	1.445	0.002	3227.1	1.571	0.642	3639.5	1.122	0.000
2409.7	1.365	0.012	2822.1	1.448	0.002	3234.4	1.540	0.664	3646.7	1.127	0.000
2417.0	1.366	0.011	2829.3	1.451	0.002	3241.6	1.506	0.683	3653.9	1.131	0.000
2424.2	1.367	0.011	2836.5	1.453	0.002	3248.8	1.470	0.700	3661.2	1.136	0.000
2431.4	1.368	0.011	2843.8	1.456	0.001	3256.1	1.430	0.715	3668.4	1.141	0.000
2438.7	1.369	0.011	2851.0	1.459	0.002	3263.3	1.386	0.724	3675.6	1.145	0.000
2445.9	1.370	0.009	2858.2	1.462	0.002	3270.5	1.341	0.728	3682.9	1.149	0.000
2453.1	1.371	0.009	2865.5	1.466	0.002	3277.8	1.297	0.723	3690.1	1.153	0.000
2460.4	1.372	0.009	2872.7	1.470	0.002	3285.0	1.254	0.716	3697.3	1.157	0.000
2467.6	1.372	0.009	2879.9	1.474	0.003	3292.2	1.213	0.702	3704.6	1.161	0.000
2474.8	1.373	0.008	2887.2	1.478	0.002	3299.5	1.176	0.685	3711.8	1.165	0.000
2482.1	1.374	0.008	2894.4	1.483	0.004	3306.7	1.143	0.663	3719.0	1.168	0.000
2489.3	1.375	0.008	2901.6	1.485	0.007	3313.9	1.115	0.640	3726.3	1.171	0.000
2496.6	1.376	0.007	2908.9	1.487	0.006	3321.2	1.091	0.616	3733.5	1.174	0.000
2503.8	1.377	0.007	2916.1	1.491	0.005	3328.4	1.070	0.594	3740.7	1.177	0.000
2511.0	1.378	0.007	2923.3	1.496	0.004	3335.6	1.054	0.571	3748.0	1.179	0.000
2518.2	1.379	0.007	2930.6	1.502	0.004	3342.9	1.037	0.550	3755.2	1.182	0.000
2525.5	1.380	0.007	2937.8	1.508	0.005	3350.1	1.023	0.531	3762.4	1.184	0.000
2532.7	1.381	0.006	2945.0	1.513	0.006	3357.3	1.010	0.513	3769.7	1.187	0.000
2540.0	1.383	0.006	2952.3	1.519	0.007	3364.6	0.997	0.496	3776.9	1.190	0.000
2547.2	1.384	0.006	2959.5	1.525	0.007	3371.8	0.983	0.479	3784.1 3791.4	1.192 1.194	0.000
2554.4	1.385	0.006	2966.7	1.532	0.009	3379.0	0.971 0.959	0.461 0.444	3798.6	1.194	0.000
2561.7	1.386	0.005	2974.0	1.539	0.010	3386.3	0.939	0.444	3805.8	1.198	0.000
2568.9	1.387	0.005	2981.2	1.546	0.011	3393.5 3400.7	0.930	0.426	3813.1	1.200	0.000
2576.1	1.388	0.005	2988.4	1.553	0.013	3400.7	0.930	0.403	3820.3	1.203	0.000
2583.4	1.390	0.005	2995.7	1.561	0.015	3408.0 3415.2	0.918	0.359	3827.5	1.205	0.000
2590.6	1.391	0.005	3002.9 3010.1	1.570	0.017	3413.2	0.899	0.339	3834.8	1.203	0.000
2597.8	1.391	0.004		1.579	0.020				3842.0	1.207	
2605.1	1.393	0.004	3017.4	1.588	0.023	3429.7 3436.9	0.890 0.885	0.310 0.284	3849.2	1.210	0.000
2612.3	1.395	0.004	3024.6	1.599	0.027			0.256	3856.5	1.211	0.000
2619.5	1.396	0.004	3031.8	1.610 1.622	0.030 0.035	3444.1 3451.4	0.882 0.882	0.236	3863.7	1.214	0.000
2626.8	1.397 1.399	0.004 0.004	3039.1 3046.3	1.622	0.033	3451.4 3458.6	0.887	0.227	3870.9	1.214	0.000
2634.0 2641.2	1.400	0.004	3053.5	1.649	0.040	3465.9	0.894	0.174	3878.2	1.217	0.000
2648.5	1.400	0.003	3060.8	1.664	0.056	3473.1	0.903	0.174	3885.4	1.217	0.000
2655.7	1.401	0.003	3068.0	1.680	0.036	3480.3	0.903	0.131	3892.6	1.220	0.000
	1.405	0.003	3075.2	1.697	0.080	3480.5 3487.6	0.915	0.131	3899.9	1.222	0.000
2662.9				1.714		3494.8	0.923	0.112	3907.1	1.223	0.000
2670.2	1.406 1.408	0.003	3082.5 3089.7	1.729	0.096 0.115	3494.8 3502.0	0.939	0.090	3914.3	1.223	0.000
2677.4 2684.6	1.408	0.003	3096.9	1.744	0.113	3502.0	0.951	0.069	3921.6	1.224	0.000
2691.9	1.411	0.003	3104.2	1.756	0.157	3516.5	0.903	0.058	3928.8	1.227	0.000
2691.9	1.411	0.003	3111.4	1.767	0.162	3523.7	0.978	0.036	3936.0	1.228	0.000
					0.190	3523.7 3531.0	1.002	0.049	3943.3	1.226	0.000
2706.3	1.414	0.003	3118.6	1.775 1.779	0.219	3538.2	1.002	0.042	3950.5	1.231	0.000
2713.6	1.416	0.003	3125.9			3545.4	1.013	0.030	3950.5 3957.7	1.233	0.000
2720.8	1.417	0.002	3133.1 3140.3	1.781 1.779	0.281 0.314	3545.4 3552.7	1.023	0.031	3965.0	1.233	0.000
2728.0	1.419	0.002			0.346	3559.9	1.033	0.026	3972.2	1.235	0.000
2735.3	1.422	0.002	3147.6	1.774	0.346	3567.1	1.043	0.021	3979.4	1.233	0.000
2742.5	1.423	0.003	3154.8	1.767			1.053		3979.4	1.237	
2749.7	1.425	0.002	3162.0 3169.3	1.756 1.743	0.410 0.439	3574.4 3581.6	1.069	0.014 0.011	3993.9	1.239	0.000
2757.0	1.427	0.003							1 3773.9	1.240	0.000
2764.2	1.430	0.003	3176.5	1.728	0.469	3588.8	1.076	0.008	L		

V (cm ⁻¹ ) n 2090.0 1.293 2092.9 1.298 2098.7 1.306 2100.4 5 1.310 2100.4 1.317 2100.4 1.317 2110.3 1.322 2110.3 1.322 2110.1 1.325 2110.1 1.325 2121.9 1.329 2121.9 1.329 2121.9 1.339 2130.5 1.338 2130.5 1.338 2130.5 1.338 2130.6 1.349 2147.9 1.344 2150.6 1.349 2150.6 1.349 2165.4 1.351 2165.7 1.351 2167.7 1.351 2167.7 1.351 2167.7 1.351 2167.7 1.351 217.8 1.351 217.9 1.351 2182.6 1.351 2182.6 1.351 2182.6 1.351 2182.7 1.351 2182.7 1.351 2221.7 1.351	8 1.352 0.022 0 1.352 0.018 5 1.354 0.017 7 1.355 0.017 9 1.356 0.016 2 1.357 0.014 6 1.358 0.016 9 1.359 0.014
V (cm ⁻¹ ) 2080.0 2085.9 2080.0 2080.0 2080.0 2080.0 2080.0 2080.0 2100.1 2100.1 2100.2 2100.2 2100.2 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.3 2100.	idddd d d d d d
>	×044704460
	2286.8 2294.0 2301.2 2301.2 2318.7 2312.9 2337.4 2337.4 2344.6
R	0.055 0.032 0.025 0.021 0.019 0.019 0.017
n 1.369 1.370 1.371 1.371 1.372 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.388 1.38	1.107 1.161 1.198 1.223 1.242 1.242 1.255 1.267 1.275 1.283
V (cm-1) 1919.3 1922.2 1919.3 1922.2 1928.0 1938.8 1938.7 1942.5 1938.6 1938.6 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7 1942.7	2061.1 2066.9 2066.9 2072.7 2075.6 2078.4 2081.3 2084.2
k   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   10	0.0000000000000000000000000000000000000
n n n n n n n n n n n n n n n n n n n	1.354 1.356 1.357 1.362 1.363 1.365 1.366 1.366
V (cm-1) 1517.1 1517.1 1517.1 1538.8 1538.8 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1580.5 1770.3 1777.5 1820.5 1835.4 1835.4 1835.4 1835.4 1835.4 1835.4 1849.5	1871.6 1878.8 1886.0 1893.3 1901.9 1904.8 1910.6 1913.5
	0.044 0.048 0.048 0.048 0.048 0.049 0.049
n 1328 1329 1333 1333 1333 1333 1333 1333 1333	
v (cm-1) 1184.4 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.2 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3 1190.3	1444.8 1459.3 1459.3 1466.5 1473.7 1481.0 1488.2 1495.4 1502.7
	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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V (Cm ⁻¹ ) 101637 101637 101637 101637 101637 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 101651 10165	1155.4 1158.3 1161.2 1164.1 1169.9 1172.8 1175.7 1178.6
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TABLE 14D—Continued

					L 14D-	-Commue					
ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2359.1	1.360	0.013	2771.4	1.433	0.003	3183.7	1.715	0.504	3596.1	1.083	0.005
2366.3	1.361	0.013	2778.7	1.436	0.002	3191.0	1.695	0.532	3603.3	1.090	0.002
2373.6	1.362	0.013	2785.9	1.438	0.002	3198.2	1.674	0.558	3610.5	1.097	0.002
2380.8	1.362	0.012	2793.1	1.440	0.001	3205.4	1.650	0.584	3617.8	1.103	0.000
2388.0	1.364	0.012	2800.4	1.442	0.002	3212.7	1.625	0.608	3625.0	1.110	0.000
2395.3	1.364	0.012	2807.6	1.445	0.002	3219.9	1.599	0.630	3632.2	1.115	0.000
2402.5	1.365	0.012	2814.8	1.447	0.002	3227.1	1.570	0.654	3639.5	1.121	0.000
2409.7	1.366	0.012	2822.1	1.450	0.002	3234.4	1.538	0.673	3646.7	1.126	0.000
2417.0	1.367	0.011	2829.3	1.453	0.002	3241.6	1.504	0.695	3653.9	1.131	0.000
2424.2	1.368	0.011	2836.5	1.456	0.002	3248.8	1.466	0.711	3661.2	1.135	0.000
2431.4	1.369	0.011	2843.8	1.459	0.002	3256.1	1.425	0.725	3668.4	1.141	0.000
2438.7	1.369	0.011	2851.0	1.462	0.002	3263.3	1.381	0.732	3675.6	1.145	0.000
2445.9	1.371	0.009	2858.2	1.466	0.003	3270.5	1.335	0.736	3682.9	1.149	0.000
2453.1	1.372	0.009	2865.5	1.469	0.003	3277.8	1.290	0.734	3690.1	1.153	0.000
2460.4	1.372	0.009	2872.7	1.473	0.003	3285.0	1.245	0.725	3697.3	1.157	0.000
2467.6	1.372	0.008	2879.9	1.477	0.002	3292.2	1.203	0.709	3704.6	1.161	0.000
2474.8	1.374	0.008	2887.2	1.481	0.003	3299.5	1.165	0.690	3711.8	1.164	0.000
2482.1	1.375	0.008	2894.4	1.486	0.005	3306.7	1.133	0.668	3719.0	1.168	0.000
2489.3	1.376	0.008	2901.6	1.489	0.008	3313.9	1.104	0.642	3726.3	1.171	0.000
2496.6	1.377	0.007	2908.9	1.491	0.007	3321.2	1.080	0.619	3733.5	1.174	0.000
2503.8	1.378	0.007	2916.1	1.495	0.006	3328.4	1.061	0.594	3740.7	1.177	0.000
2511.0	1.379	0.007	2923.3	1.500	0.006	3335.6	1.043	0.571	3748.0	1.179	0.000
2518.2	1.380	0.007	2930.6	1.506	0.007	3342.9	1.029	0.550	3755.2	1.182	0.000
2525.5	1.380	0.006	2937.8	1.511	0.007	3350.1	1.015	0.529	3762.4	1.184	0.000
2532.7	1.382	0.006	2945.0	1.517	0.009	3357.3	1.003	0.511	3 <b>76</b> 9.7	1.187	0.000
2540.0	1.384	0.006	2952.3	1.523	0.009	3364.6	0.990	0.493	3776.9	1.189	0.000
2547.2	1.385	0.006	2959.5	1.529	0.011	3371.8	0.977	0.476	3784.1	1.192	0.000
2554.4	1.385	0.005	2966.7	1.535	0.012	3379.0	0.965	0.459	3791.4	1.194	0.000
2561.7	1.387	0.005	2974.0	1.542	0.013	3386.3	0.954	0.441	3798.6	1.197	0.000
2568.9	1.388	0.005	2981.2	1.549	0.015	3393.5	0.940	0.423	3805.8	1.198	0.000
2576.1	1.389	0.005	2988.4	1.557	0.018	3400.7	0.925	0.403	3813.1	1.201	0.000
2583.4	1.391	0.005	2995.7	1.565	0.020	3408.0	0.914	0.382	3820.3	1.203	0.000
2590.6	1.392	0.005	3002.9	1.573	0.022	3415.2	0.904	0.358	3827.5	1.205	0.000
	1.393	0.004	3010.1	1.582	0.025	3422.4	0.895	0.334	3834.8	1.207	0.000
	1.394	0.004	3017.4	1.591	0.029	3429.7	0.886	0.307	3842.0	1.209	0.000
	1.396	0.004	3024.6	1.601	0.032	3436.9	0.880	0.281	3849.2	1.211	0.000
	1.397	0.004	3031.8	1.612	0.036	3444.1	0.878	0.254	3856.5	1.211	0.000
	1.398	0.003	3039.1	1.623	0.041	3451.4	0.878	0.225	3863.7	1.214	0.000
	1.400	0.003	3046.3	1.636	0.047	3458.6	0.883	0.196	3870.9	1.216	0.000
	1.401	0.003	3053.5	1.649	0.053	3465.9	0.890	0.172	3878.2	1.217	0.000
	1.403	0.003	3060.8	1.663	0.062	3473.1	0.900	0.148	3885.4	1.219	0.000
	1.405	0.003	3068.0	1.678	0.072	3480.3	0.910	0.126	3892.6	1.220	0.000
	1.406	0.003	3075.2	1.694	0.085	3487.6	0.923	0.109	3899.9	1.222	0.000
	1.407	0.003	3082.5	1.710	0.099	3494.8	0.936	0.092	3907.1	1.223	0.000
	1.409	0.003	3089.7	1.726	0.117	3502.0	0.950	0.078	3914.3	1.225	0.000
	1.411	0.003	3096.9	1.742	0.138	3509.3	0.963	0.066	3921.6	1.226	0.000
	1.412	0.003	3104.2	1.755	0.162	3516.5	0.976	0.056	3928.8	1.228	0.000
	1.414	0.002	3111.4	1.767	0.189	3523.7	0.988	0.047	3936.0	1.229	0.000
	1.416	0.003	3118.6	1.776	0.218	3531.0	1.000	0.040	3943.3	1.230	0.000
	1.418	0.002	3125.9	1.782	0.248	3538.2	1.012	0.033	3950.5	1.231	0.000
	1.419	0.002	3133.1	1.785	0.281	3545.4	1.022	0.028	3957.7	1.233	0.000
	1.422	0.002	3140.3	1.784	0.314	3552.7	1.033	0.023	3965.0	1.234	0.000
	1.424	0.003	3147.6	1.780	0.348	3559.9	1.042	0.019	3972.2	1.236	0.000
	1.425	0.003	3154.8	1,773	0.380	3567.1	1.051	0.016	3979.4	1.237	0.000
	1.427	0.003	3162.0	1.762	0.413	3574.4	1.060	0.012	3986.7	1.239	0.000
	1.429	0.003	3169.3	1.749	0.445	3581.6	1.068	0.009	3993.9	1.241	0.000
2764.2	1.431	0.003	3176.5	1.733	0.476	3588.8	1.076	0.007			

TABLE 14E  $H_2O:OCS = 20:1 \text{ AT } 140 \text{ K}$ 

11-	_		_		_					_		_		_				_	_											_		_		_					_	_	_			_				_
<u> </u>	0.016	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.010	0.017	0.017	0.018	0.018	0.018	0.020	0.020	0.021	0.021	0.021	0.021	0.022	0.023	0.023	0.025	0.025	0.026	0.020	0.027	0.027	0.027	0.025	0.024	0.024	0.022	0.020	0.020	0.018	0.018	0.017	0.016	0.016	0.014
=	1.299	1.304	1.311	1.315	1.321	1.324	1.327	1.331	1.333	1.335	1.337	1.338	1.340	1.341	1.345	1.344	1 346	1.347	1.348	1.349	1.350	1.350	1.351	1.351	1.352	1 353	1.354	1.354	1.354	1.354	1.355	1.355	1352	1.354	1.353	1.353	1.353	1.353	1.352	1.353	1.354	1.354	1.356	1.350	1.358	1.358	1.359	1.361
v (cm ⁻¹ )	2090.0	2092.9	2098.7	2101.6	2107.4	2110.3	2113.2	2119.0	2121.9	2124.7	2127.6	2130.5	2133.4	2136.3	2139.2	2142.1	2147.9	2150.8	2153.7	2156.6	2159.5	2162.4	2165.3	2168.1	2171.0	2176.8	2179.7	2182.6	2185.5	2191.3	2194.2	2197.1	2207.2	2221.7	2228.9	2236.1	2250.6	2257.8	2265.1	2272.3	2286.8	2294.0	2301.2	2308.5	2322.9	2330.2	2337.4	2351.9
<u> </u>	0.003	0.003	0.003	0.003	0.003	0.003	5000	000	0.003	0.003	0.003	0.00	0.003	0.003	0.003	0.003	0.00	0.003	90.0	0.00	9000	0.010	0.015	0.014	0.00	300	0.00	0.010	36	0000	0.010	0.012	0.014	0.034	0.104	0.275	0.650	0.616	0.462	0.248	0.035	0.024	0.021	070.0	0.020	0.019	0.019	0.018
-	1.368	1.369	1.372	1.373	1.375	1.376	1.3/8	1.380	1.382	1.383	1.385	1.386	1.388	385	1.392	1.394	1300	1.402	404	1.408	1.412	1.416	1.416	1.413	1.416	1 428	1.435	1.41	1.44/	1.468	1.482	1.500	1.524	1.621	1.701	1.747	1.459	1.222	1.051	0.994	1.129	1.182	1.215	1.23/	1.265	1.275	1.283	1.295
v (cm ⁻¹ )	1919.3	1922.2	1928.0	1930.9	1936.7	1939.6	1942.5	1948.2	1951.1	1954.0	1956.9	1959.8	1962.7	1965.6	1968.5	1971.4	1077.2	1980.1	1983.0	1985.9	1988.8	1991.6	1994.5	1997.4	2000.3	2006.1	2009.0	2011.9	2014.8	2020.6	2023.5	2026.4	2029.3	2035.0	2037.9	2040.8	2046.6	2049.5	2052.4	2055.3	2061.1	2064.0	2066.9	2009.8	2075.6	2078.4	2081.3	2087.1
<u></u>	0.053	0.052	0.056	0.055	0.059	0.059	90.0	0.063	0.065	0.065	0.066	0.066	0.068	0.00	0.0/1	0.071	0.070	0.072	0.072	0.071	0.069	990.0	0.062	0.056	0.050	0.03	0.032	0.027	0.023	0.020	0.015	0.013	0.012	0.00	0.008	0.00	0.00	0.005	0.005	90.0	900	0.00	0.005	9 6	0.003	0.003	0.003	0.003
	1.365	1.365	1.364	1.363	1.362	1.361	1.361	1.359	1.358	1.356	1.354	1.352	1.351	1.349	1.34/	25.1	1 338	1.334	1.331	1.326	1.321	1.317	1.312	1.309	1.306	1307	1.308	1.311	1.314	1.319	1.322	1.325	1.328	1.332	1.335	1.337	1.341	1.344	1.346	1.349	1.354	1.357	1.356	1.358	1.363	1.364	1.365	1.367
v (cm ⁻¹ )	1517.1	1524.4	1538.8	1546.1	1560.5	1567.8	15/5.0	1589.5	1596.7	1603.9	1611.2	1618.4	1625.6	1632.9	1040.1	1654 6	1661.8	1669.0	1676.3	1683.5	1690.7	1698.0	1705.2	1712.4	1/19./	1734.1	1741.4	1748.6	1763.1	1770.3	1777.5	1784.8	1792.0	1806.5	1813.7	1820.9	1835.4	1842.6	1849.9	1857.1	1871.6	1878.8	1886.0	1901.0	1904.8	1907.7	1910.6	1916.4
	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.012	0.012	0.012	0.012	0.010	0.015	0.01	0.014	0.014	0.017	0.017	0.019	0.019	0.021	0.023	0.025	0.025	0.027	0.027	0.029	0.031	0.030	0.032	0.034	0.034	0.036	0.038	0.040	0.039	20.0	0.043	0.043	45.5	20.0	0.046	0.048	0.049	0.051
ء ا	1.328	1.328	1.329	1.330	1.332	1.333	1.334	1.336	1.337	1.337	1.338	1.338	1.339	1.340	1.339	1.343	1344	4	1.345	1.348	1.349	1.350	1.353	1.353	1.355	1356	1.357	1.359	1.358	1.360	1.361	1.362	1.362	1.362	1.363	1.364	36.	1.364	1.365	1.364	1.365	1.365	1.365	1.365	1.366	1.365	1.365	1.365
v (cm ⁻¹ )	1184.4	1187.3	1193.1	1196.0	1201.7	1204.6	1207.5	1213.3	1216.2	1219.1	1222.0	1224.9	1227.8	1230.7	1233.6	1230.5	1242.7	1245.1	1248.0	1256.7	1263.9	1271.2	1278.4	1285.6	1292.9	1307.3	1314.6	1321.8	1329.1	1343.5	1350.8	1358.0	1372 5	1379.7	1386.9	1394.2	1408.6	1415.9	1423.1	1430.3	1444.8	1452.0	1459.3	1400.5	1481.0	1488.2	1495.4	1509.9
×	0.000	000	0.000	88	80.0	0.00	9 5	3 5	0.00	0.00	0.00	0.002	0.002	0.00	7000	0.00	0.00	0000	0.00	0.005	0.002	0.005	0.005	0.005	0.000	30.0	0.002	0.005	0.00	0.00	0.005	0.005	0.00	0.005	0.005	0.008	0.00	0.005	0.005	0.002	000	0.008	0.00	80.0	0.08	0.008	0.00	0.008
ء	1.220	1.224	1.232	1.236	1.242	1.246	1.249	1.252	1.254	1.256	1.260	1.264	1.265	1.26/	0.77	1,274	1 276	1.278	1.280	1.282	1.284	1.287	1.287	1.288	1.289	1 291	1.294	1.297	1 207	1.300	1.301	1.302	205.1	1.306	1.308	1.309	1.311	1.313	1.314	1.314	1.317	1.318	1.319	1.320	1.321	1.323	1.324	1.327
v (cm ⁻¹ )	1013.7	1016.6	1022.3	1025.2	1031.0	1033.9	1036.8	1042.6	1045.5	1048.4	1051.3	1054.2	1057.1	1000.0	1065.7	1068.6	1071 5	1074.4	1077.3	1080.2	1083.1	1086.0	1088.9	1091.8	1094.7	1100.5	1103.4	1106.3	1109.1	1114.9	1117.8	1120.7	1123.6	1129.4	1132.3	1135.2	1141.0	1143.9	1146.8	1149.7	1155.4	1158.3	1161.2	1167.1	1169.9	1172.8	1175.7	1181.5
<u>_</u>		0.471	0.462	0.459	0.451	0.426	0.417	0.396	0.388	0.375	0.367	0.354	0.341	0.333	0.320	0.300	0.284	0.270	0.257	0.243	0.229	0.216	0.202	0.188	0.175	0.152	0.139	0.126	2.5	0.096	0.083	0.075	0.067	0.051	0.04	0.036	0.029	0.026	0.022	0.019	0.010	0.000	0.000	90.0	0.003	0.003	0.003	0.000
_	1.241	1.228	1.206	1.196	1.156	1.14	1.13/	1.124	1.115	1.108	1.099	1.093	1.085	1.0/8	7/0:1	1.00	1.058	1.054	1.051	1.049	1.045	1.045	1.047	1.046	- 5 5 5 5 6 7	1.052	1.055	1.058	790.1	1.072	1.079	1.085	1.092	1.105	1.112	1.120	1.135	1.142	1.149	1.155	1.167	1.174	1.180	1.183	1.196	1.202	1.207	1.215
v (cm ⁻¹ )	843.0	845.9 848.7	851.6	854.5	860.3	863.2	860.1	871.9	874.8	7.778	880.6	883.5	886.4	889.3	0.500	897.0	8 006	903.7	906.6	909.5	912.4	915.3	918.2	921.1	924.0	920.8	932.7	935.5	938.4	944.2	947.1	950.0	952.9	958.7	961.6	964.S	970.3	973.2	976.1	9/8/9	984.7	987.6	990.5	995.4 4. 60	999.2	1005.1	1005.0	1010.8
<u></u>	0.168	0.175	0.188	0.198	0.218	0.225	0.235	0.252	0.262	0.269	0.283	0.290	0.301	0.312	0.519	0.330	0 348	0.359	0.367	0.375	0.387	0.395	0.403	0.411	0.419	0.437	0.442	0.451	0.450	0.467	0.473	0.478	0.485	0.488	0.495	0.497	0.501	0.504	0.502	0.505	0.505	0.503	0.502	0.500	0.496	0.494	0.488	0.480
e e	1.69.1	1.692	1.692	1.694	1.694	1.693	1.694	1.693	1.691	1.688	1.687	1.684	1.680	1.0//	1.0/3	1.000	1 660	1.653	1.648	1.641	1.634	1.626	1.619	1.611	1.603	1 586	1.575	1.565	1.555	1.533	1.521	1.513	1.499	1.476	1.464	1.451	1.427	1.415	1.402	1.388	1.365	1.351	1.338	1.323	1.300	1.288	1.276	1.251
v (cm ⁻¹ )	672.2	675.1 678.0	680.9	683.8	9.689	692.5	608.3	701.2	704.1	707.0	709.9	712.8	715.6	721.4	727.3	2727	730 1	733.0	735.9	738.8	741.7	744.6	747.5	750.4	756.2	759.0	761.9	84.6	7.70.6	773.5	776.4	779.3	785 1	788.0	790.9	795.8	799.6	802.5	805.3	808.2	814.0	816.9	819.8	825.1	828.5	831.4	834.3	840.1
×	0.000	0.00	0.00	0.043	0.020	0.005	0.000	0.000	0.000	0.004	0.000	0.00	0.013	0.000	0.013	0.013	0.017	0.017	0.021	0.021	0.021	0.029	0.029	0.033	0.028	0.036	0.044	0.04	0.045	0.051	0.054	0.054	0.00	0.069	0.072	0.070	0.086	0.089	0.093	0.096	0.106	0.113	0.116	0.122	0.136	0.143	0.146	0.157
a a	1.54	1.548	1.573	1.572	1.511	1.528	1.538	1.549	1.554	1.562	1.562	1.566	1.566	1.508	1.570	1.584	1 583	1.584	1.591	1.588	1.596	1.597	1.598	1.602	1.0 4.0 5.0 4.0	1.611	1.614	1.616	1.018	1.623	1.629	1.632	1.632	1.638	1.641	£ 5	1.650	1.652	1.656	1.658		1.667	1.668	1.675	1.676	1.677	1.677	1.696
v (cm ⁻¹ )	501.5	504.4 507.3	510.2	513.1	518.9	521.8	524.7	530.5	533.4	536.3	539.1	542.0	544.9	8.747	553.6	556.5	559.4	562.3	565.2	568.1	571.0	573.9	576.8	579.7	585.4	588.3	591.2	594.1	599.0	602.8	605.7	908.6	614.4	617.3	620.2	623.1	628.8	631.7	634.6	640.5	643.3	646.2	649.1	654.9	657.8	2.099	663.6	669.4

TABLE 14E—Continued

				IADL	L 14L-	–Continue	u				
ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2359.1	1.362	0.014	2771.4	1.436	0.002	3183.7	1.706	0.522	3596.1	1.086	0.005
2366.3	1.362	0.014	2778.7	1.439	0.001	3191.0	1.687	0.548	3603.3	1.093	0.003
2373.6	1.363	0.013	2785.9	1.442	0.001	3198.2	1.665	0.576	3610.5	1.100	0.000
2380.8	1.364	0.013	2793.1	1.444	0.001	3205.4	1.641	0.602	3617.8	1.106	0.000
2388.0	1.365	0.012	2800.4	1.446	0.002	3212.7	1.615	0.628	3625.0	1.112	0.000
2395.3	1.366	0.012	2807.6	1.449	0.002	3219.9	1.586	0.654	3632.2	1.117	0.000
2402.5	1.367	0.012	2814.8	1.452	0.002	3227.1	1.554	0.677	3639.5	1.123	0.000
2409.7	1.367	0.012	2822.1	1.454	0.002	3234.4	1.516	0.697	3646.7	1.128	0.000
2417.0	1.368	0.011	2829.3	1.457	0.002	3241.6	1.477	0.714	3653.9	1.133	0.000
2424.2	1.370	0.011	2836.5	1.461	0.002	3248.8	1.435	0.728	3661.2	1.138	0.000
2431.4	1.370	0.011	2843.8	1.464	0.003	3256.1	1.392	0.735	3668.4	1.142	0.000
2438.7	1.371	0.011	2851.0	1.467	0.003	3263.3	1.348	0.741	3675.6	1.147	0.000
2445.9	1.372	0.009	2858.2	1.471	0.004	3270.5	1.302	0.739	3682.9	1.150	0.000
2453.1	1.373	0.009	2865.5	1.474	0.003	3277.8	1.257	0.732	3690.1	1.154	0.000
2460.4	1.374	0.009	2872.7	1.478	0.003	3285.0	1.214	0.720	3697.3	1.158	0.000
2467.6 2474.8	1.375	0.009	2879.9	1.483	0.004	3292.2	1.175	0.702	3704.6	1.162	0.000
2474.8	1.376	0.008	2887.2 2894.4	1.487 1.492	0.005	3299.5 3306.7	1.138	0.680	3711.8	1.165	0.000
	1.377	0.008			0.006		1.108	0.655	3719.0	1.168	0.000
2489.3	1.378	0.008	2901.6	1.496	0.010	3313.9	1.082	0.630	3726.3	1.171	0.000
2496.6 2503.8	1.379	0.007	2908.9 2916.1	1.497	0.010	3321.2 3328.4	1.060 1.042	0.604	3733.5 3740.7	1.174	0.000
2503.8	1.380 1.381	0.007	2916.1	1.502	0.009	3335.6	1.042	0.579 0.555	3740.7	1.177 1.180	0.000
	1.382	0.007	2923.3	1.507	0.008	3342.9	1.028	0.533	3755.2		0.000
2518.2 2525.5		0.007 0.006	2930.6	1.513 1.518	0.009	3350.1	1.002	0.534	3762.4	1.183 1.185	0.000
2532.7	1.383 1.384	0.006	2937.8	1.524	0.011	3357.3	0.992	0.314	3769.7	1.187	0.000
2540.0	1.385	0.006	2943.0 2952.3	1.530	0.012	3364.6	0.992	0.494	3776.9	1.190	0.000
2547.2	1.386	0.006	2959.5	1.537	0.015	3371.8	0.967	0.462	3784.1	1.190	0.000
2554.4	1.387	0.006	2966.7	1.543	0.013	3379.0	0.956	0.444	3791.4	1.194	0.000
2561.7	1.388	0.005	2974.0	1.550	0.017	3386.3	0.946	0.427	3798.6	1.197	0.000
2568.9	1.390	0.005	2981.2	1.557	0.021	3393.5	0.932	0.408	3805.8	1.199	0.000
2576.1	1.391	0.005	2988.4	1.565	0.024	3400.7	0.920	0.386	3813.1	1.201	0.000
2583.4	1.392	0.005	2995.7	1.573	0.027	3408.0	0.909	0.364	3820.3	1.203	0.000
2590.6	1.393	0.005	3002.9	1.581	0.030	3415.2	0.900	0.342	3827.5	1.205	0.000
2597.8	1.395	0.003	3010.1	1.590	0.033	3422.4	0.892	0.316	3834.8	1.207	0.000
2605.1	1.396	0.004	3017.4	1.599	0.037	3429.7	0.886	0.291	3842.0	1.209	0.000
2612.3	1.398	0.004	3024.6	1.609	0.041	3436.9	0.882	0.265	3849.2	1.211	0.000
2619.5	1.399	0.004	3031.8	1.619	0.046	3444.1	0.881	0.237	3856.5	1.212	0.000
2626.8	1.401	0.004	3039.1	1.630	0.051	3451.4	0.883	0.210	3863.7	1.214	0.000
2634.0	1.401	0.004	3046.3	1.643	0.058	3458.6	0.889	0.183	3870.9	1.216	0.000
2641.2	1.403	0.003	3053.5	1.655	0.065	3465.9	0.897	0.160	3878.2	1.218	0.000
2648.5	1.405	0.003	3060.8	1.669	0.003	3473.1	0.907	0.138	3885.4	1.219	0.000
2655.7	1.407	0.003	3068.0	1.684	0.085	3480.3	0.918	0.138	3892.6	1.220	0.000
2662.9	1.408	0.003	3075.2	1.699	0.097	3487.6	0.931	0.100	3899.9	1.222	0.000
2670.2	1.410	0.003	3082.5	1.715	0.112	3494.8	0.944	0.086	3907.1	1.223	0.000
2677.4	1.412	0.003	3089.7	1.731	0.112	3502.0	0.958	0.033	3914.3	1.225	0.000
2684.6	1.413	0.003	3096.9	1.746	0.153	3509.3	0.970	0.062	3921.6	1.226	0.000
2691.9	1.415	0.003	3104.2	1.760	0.177	3516.5	0.983	0.052	3928.8	1.227	0.000
2699.1	1.417	0.003	3111.4	1.771	0.205	3523.7	0.995	0.032	3936.0	1.229	0.000
2706.3	1.418	0.003	3118.6	1.779	0.236	3531.0	1.007	0.037	3943.3	1.230	0.000
2713.6	1.420	0.003	3125.9	1.783	0.268	3538.2	1.018	0.037	3950.5	1.232	0.000
2720.8	1.422	0.003	3133.1	1.784	0.208	3545.4	1.028	0.032	3957.7	1.233	0.000
2728.0	1.423	0.003	3140.3	1.782	0.335	3552.7	1.028	0.027	3965.0	1.234	0.000
2735.3	1.425	0.002	3147.6	1.776	0.369	3559.9	1.047	0.022	3972.2	1.236	0.000
2742.5	1.428	0.003	3154.8	1.767	0.401	3567.1	1.055	0.015	3979.4	1.237	0.000
2749.7	1.420	0.003	3162.0	1.755	0.434	3574.4	1.063	0.013	3986.7	1.238	0.000
2757.0	1.432	0.002	3169.3	1.740	0.463	3581.6	1.072	0.011	3993.9	1.241	0.000
2764.2	1.435	0.002	3176.5	1.724	0.493	3588.8	1.079	0.007	3,,,,,,	1.271	0.000
2707.2	*****	3.002	3110.3		J.77J	2200.0	1.017	0.007			

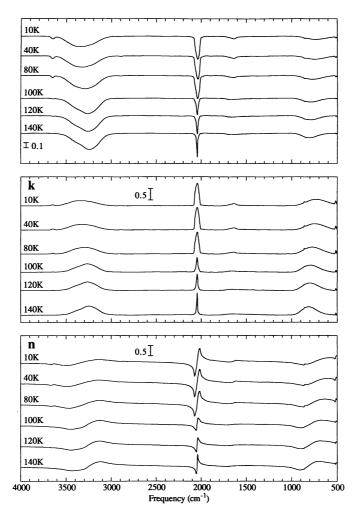


FIG. 15.—The 4000 to  $500 \text{ cm}^{-1}$  transmission spectra and optical constants (n and k) of an  $H_2O:OCS=2:1$  ice mixture at temperatures of 10, 40, 80, 100, 120, and 140 K. The original ice was deposited at 10 K.

TABLE 15A  $H_2O:OCS = 2:1 \text{ AT } 10 \text{ K}$ 

<u>-</u>	900.0	90.0	0.00	0.006	0.007	0.007	0.005	900	9000	0.006	90.0	989	90.0	900.0	0.006	0.005	0.005	0.00	30.0	3 6	38	200	0.005	0.005	0.005	0.003	0.00	9.8	38	2 2	0.00	0.00	20.00	0.00	000	0.003	0.003	0.003	0.00	0.002	0.003	0.003	0.00	0.002	0.002	0.002	0.002	0.002	0.007
=	1.216	1.218	1.22.1	1.223	1.224	1.227	1.229	1.232	1.234	1.235	1.237	1.238	1.241	1.245	1.248	1.252	1.255	1.258	107.1	1.264	1 268	1 271	1.273	1.275	1.276	1.278	1.280	1.282	1 286	1.287	1.288	1.290	1.290	1.292	1 295	1.296	1.297	1.298	1.300	1.301	1.303	1.303	1.305	1.306	1.307	1.308	1.310	1.311	1.312
v (cm ⁻¹ )	2167.7	2169.6	2173.4	2175.4	2177.3	2181.2	2183.1	2187.0	2188.9	2190.8	2192.7	2194.7	2198.5	2206.2	2213.0	2219.7	2226.5	2233.2	2240.0	2240.0	22603	0.222	2273.8	2280.5	2287.3	2294.0	2300.8	2307.5	2214.3	2327.8	2334.5	2341.3	2348.0	2354.8	2368.3	2375.0	2381.8	2388.5	2402.0	2408.8	2415.5	2422.3	2435.8	2442.5	2449.3	2456.0 2462.8	2469.5	2476.3	7463.0
ш	1	0.824		_		. ~	0.531	0.374	0.273	0.171	0.092	0.031	0.024	0.020	0.019	0.016	0.015	0.013	0.015	0.012	0.012	0.010	0.010	0.00	0.008	0.00	0.008	0.008	360	0.00	0.007	0.008	0.008	0.00	0000	0.006	0.00	0.007	0.00	0.006	0.006	0.00	0.00	0.005	0.005	0.005	0.00	0.00	0.000
ء	1.054	1.002	0.907	0.863	0.821	0.737	0.697	0.00	0.629	0.659	0.715	0.7/8	0.877	0.913	0.940	0.964	0.985	1.003	1.019	1.035	1.05	80.1	1.079	1.087	1.096	1.103	1.111	1.118	1.120	1.137	1.142	1.147	1.152	1.156	3 2	1.169	1.172	1.176	1.1/9	1.186	1.189	1.192	1.193	1.199	1.202	1.205	1.210	1.212	1.214
v (cm ⁻¹ )	2053.9	2055.8	2059.6	2061.6	2063.5	2067.4	2069.3	2073.1	2075.1	2077.0	2078.9	2080.7	2084.7	2086.6	2088.6	2090.5	2092.4	2094.4	2090.3	2090.7	2100.1	2102:1	2105.9	2107.9	2109.8	2111.7	2113.7	2115.6	2110	217.4	2123.3	2125.2	2127.2	2129.1	2132.9	2134.9	2136.8	2138.7	2142.6	2144.5	2146.4	2148.4	2150.3	2154.2	2156.1	2158.0	2161.9	2163.8	7.007.
×	0.004	90.0	0.00	0.005	0.000	0.005	0.005		0.005	0.007	0.006	900	0.00	0.012	0.014	0.016	0.019	0.021	0.023	0.020	0.020	0.027	0.027	0.024	0.022	0.021	0.021	0.023	0.026	0.030	0.08	0.128	0.187	0.253	0.393	0.461	0.529	0.593	0.023	0.760	0.803	0.840	0.872	0.915	0.925	0.930	0.916	0.899	0.877
ı.	1.465	1.468	1.475	1.478	1.481	1.489	1.494	1.498	1.507	1.512	1.518	1.524	1.536	1.543	1.549	1.556	1.562	1.569	1.5/0	1.383	1.597	1,607	1.617	1.630	1.645	1.664	1.686	1.712	1.742	1 810	1.863	1.905	1.938	1.960	1 970	1.959	1.939	1.912	1.877	1.787	1.733	1.678	1.018	1.489	1.423	1.357	1.228	1.167	1.109
v (cm ⁻¹ )	1940.0	1942.0	1945.8	1947.8	1949.7	1953.6	1955.5	1957.4	1961.3	1963.2	1965.1	1967.1	1970.9	1972.8	1974.8	1976.7	1978.6	1980.6	C.7861	1,984.4	1088 3	1000.7	1992.1	1994.1	1996.0	1997.9	1999.8	2001.8	2005.7	2002.0	2009.5	2011.4	2013.3	2015.3	2017.7	2021.1	2023.0	2024.9	2020.8	2030.7	2032.6	2034.6	2036.5	2040.4	2042.3	2044.2	2048.1	2050.0	4.1CU2
×	0.061	0.057	0.046	0.040	0.038	0.028	0.022	0.019	0.012	0.00	0.007	0.00	900	0.002	0.004	0.00	0.003	0.003	0.003	500	0.00	000	000	0.003	0.003	0.003	0.003	0.003	300	300	0.007	0.00	0.000	0.007	90.0	0.0	0.00	90.0	200	0.00	0.003	0.003	9.0	0.00	0.00	9 9	0.00	0.00	0.004
ļ c	1.326	1.324	1.322	1.323	1.324	1.323	1.326	1.328	1.336	1.339	1.343	350	1.352	1.356	1.359	1.361	1.364	1.367	1.3/0	1.372	1.377	1 380	1384	1.386	1.389	1.392	1.395	1.398	1.402	1.1	1.413	1.414	1.417	1.420	1 423	1.425	1.427	1.429	1.431	1.434	1.437	1.40	24.1	1.47	1.449	1.451	1.456	1.459	1.462
v (cm ⁻¹ )		1680.6	1692.2	1698.0	1703.7	1715.3	1721.1	1732.7	1738.5	1744.3	1750.0	17616	1767.4	1773.2	1779.0	1784.8	1790.6	1,96.3	1802.1	1807.9	1810 5	1825.3	1831.1	1836.8	1842.6	1848.4	1854.2	1860.0	1603.6	1877.4	1883.1	1888.9	1894.7	1901.5	1905.3	1907.3	1909.2	1911.1	1915.0	1916.9	1918.8	1920.8	1922.7	1926.5	1928.5	1930.4	1934.3	1936.2	1938.1
*	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.013	0.013	0.013	0.013	0.013	0.015	0.015	0.013	0.015	0.017	0.015	0.01/	0.010	0.014	0.010	0.016	0.018	0.018	0.016	0.020	0.020	0.020	0.027	0.021	0.023	0.023	0.021	0.025	0.023	0.028	0.031	0.033	0.047	0.056	0.063	0.0/0	0.096	0.097	0.091	0.00	0.070	0.067
=	1.350	1.350	1.352	1.353	1.353	1.354	1.354	1.355	1.356	1.357	1.358	1 359	1.359	1.359	1.361	1.361	1.362	1.361	405.1	1.303	36.4	1366	1.367	1.368	1.369	1.371	1.371	1.372	1.373	1 374	1.377	1.378	1.378	1.380	1.385	1.387	1.390	1.393	1.397	1.401	1.403	1.404	300	1.374	1.360	1.347	1.335	1.331	1.327
v (cm ⁻¹ )	1333.4	1339.2	1350.8	1356.5	1362.3	1373.9	1379.7	13913	1397.0	1402.8	1408.6	1414.7	1426.0	1431.8	1437.6	1443.3	1449.1	1454.9	1460.7	1400.3	1472.3	1483.8	1489.6	1495.4	1501.2	1507.0	1512.8	1518.6	1530 1	1535.0	1541.7	1547.5	1553.3	1559.1	1570.7	1576.4	1582.2	1588.0	1599.6	1605.4	1611.2	1616.9	1628.5	1634.3	1640.1	1645.9	1657.5	1663.2	1669.0
<u>×</u>	0.005	0.005	0.005	0.005	0.005	0.008	0.011	0.0	0.005	0.002	0.00	2000	0.003	0.000	0.003	0.003	0.003	0.003	0.00	300	0.00	0.00	0.003	0.005	0.005	0.005	0.005	0.005		0.00	0.005	0.005	0.005	0.000	0.005	0.007	0.007	0.007	0.00	0.007	0.010	0.010	0.00	0.00	0.00	0.00	0.003	0.012	0.011
ď	1.272	1.277	1282	1.287	282	1.296	1.296	1.293	1.295	1.298	1.30	30.1	1.308	1.310	1.312	1.312	1.315	1.317	1.318	025.1	1321	1 324	1.326	1.326	1.327	1.328	1.329	1.330	1 333	1 333	1.334	1.335	1.336	1.337	1.339	1.338	1.340	1.340	1.34	1.343	1.346	1.345	245	1.346	1.347	1.348	1.34	1.349	1.347
v (cm ⁻¹ )	992.0	997.8	1009.3	1015.1	1020.9	1032.5	1038.3	1049	1055.6	1061.4	1067.2	1078.8	1084.6	1090.3	1096.1	1101.9	1107.7	1113.5	1119.3	1120.1	1136.6	1142.4	1148.2	1154.0	1159.8	1165.6	1171.4	1177.1	1188 7	1194.5	1200.3	1206.1	1211.9	1217.7	1229.2	1235.0	1240.8	1246.6	1258.2	1263.9	1269.7	1275.5	1281.3	1292.9	1298.7	1304.5	1316.0	1321.8	0./261
	0.195	0.195	0.186	0.186	0.181	0.172	0.172	0.163	0.163	0.158	0.15	0.157	0.152	0.156	0.159	0.167	0.175	20.0	0.181	0.100	0.17	0.125	0.117	0.112	0.108	0.104	0.099	0.099	0.00	000	0.086	0.082	0.082	0.078	0.074	0.00	0.070	0.062	0.050	0.043	0.036	0.032	0.028	0.018	0.018	0.015	0.011	0.008	0.00
   	1.228	1.226	1.223	1.222	1.221	1.219	1.218	1.218	1.220	1.219	1.221	1 223	1.226	1.227	1.230	1.228	1.222	1.209	1.193	1.100	1.170	1.171	1.175	1.180	1.183	1.185	1.189	1.190	1 104	194	1.196	1.196	1.197	1.199	1.202	1.202	1.203	1.208	1.215	1.219	1.223	1.227	1 236	1.241	1.247	1.251	1.259	1.264	1.208
v (cm ⁻¹ )	816.4	818.4	822.2	824.2	826.1 828.0	829.9	831.9	835.7	837.7	839.6	841.5	845.4	847.3	849.2	851.2	853.1	855.0	856.9	838.9	900.9	864.7	866.6	868.5	870.4	872.4	874.3	876.2	878.2	882.0	883.9	885.9	887.8	889.7	891./	895.5	897.5	899.4	905.2	916.7	922.5	928.3	934.1	939.9	951.5	957.2	963.0	974.6	980.4	7.00%
<b>X</b>	960.0	0.154	0.146	0.097	0.079	0.101	0.10	0.108	0.119	0.128	0.131	0.13	0.154	0.158	0.166	0.173	0.181	0.189	0.19	1.00	0.215	0.23	0.230	0.235	0.241	0.245	0.249	0.252	0.250	0.264	0.268	0.268	0.272	0.272	0.271	0.267	0.267	0.263	0.254	0.249	0.244	0.236	0.227	0.218	0.213	0.213	0.209	0.200	0.137
	-	1.620	1.470	1.479	1.498	1.520	1.519	1.527	1.529	1.526	1.527	1.525	1.524	1.521	1.518	1.516	1.515	1.507	202	1.301	1.490	1 482	1.476	1.463	1.462	1.455	1.445	1.436	1.416	1406	1.399	1.387	1.378	1.366	134	1.334	1.322	1.311	1.289	1.281	1.272	1.262	1.233	1.240	1.239	1.240	1.232	1.230	1.430
v (cm ⁻¹ )	504.9	510.7	522.3	528.1	533.8	545.4	551.2	562.8	9.895	574.4	580.1	591.7	597.5	603.3	609.1	614.9	620.6	626.4	037.7	030.0	649.6	655.4	661.2	6.999	672.7	678.5	684.3	690.1	701.7	707.4	713.2	719.0	724.8	736.4	742.2	748.0	753.7	759.5	771.1	6.977	782.7	788.5	8010	802.9	804.9	806.8 808.7	810.6	812.6	014:0

TABLE 15A—Continued

ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2489.8	1.312	0.002	2874.6	1.366	0.005	3259.5	1.381	0.187	3644.3	1.233	0.041
2496.6	1.313	0.002	2881.4	1.366	0.009	3266.2	1.377	0.191	3651.0	1.223	0.041
2503.3	1.314	0.002	2888.1	1.365	0.011	3273.0	1.371	0.194	3657.8	1.215	0.036
2510.1	1.315	0.002	2894.9	1.363	0.011	3279.7	1.365	0.199	3664.5	1.210	0.028
2516.8	1.316	0.002	2901.6	1.363	0.010	3286.5	1.359	0.204	3671.3	1.209	0.017
2523.6	1.316	0.002	2908.4	1.363	0.008	3293.2	1.351	0.207	3678.0	1.212	0.010
2530.3	1.317	0.001	2915.1	1.364	0.007	3300.0	1.343	0.210	3684.8	1.216	0.004
2537.1	1.317	0.001	2921.9	1.366	0.005	3306.7	1.336	0.212	3691.5	1.222	0.000
2543.8	1.319	0.001	2928.6	1.368	0.004	3313.5	1.328	0.213	3698.3	1.227	0.000
2550.6	1.319	0.001	2935.4	1.370	0.004	3320.2	1.320	0.215	3705.0	1.231	0.000
2557.3	1.319	0.001	2942.1	1.374	0.003	3327.0	1.312	0.215	3711.8	1.234	0.000
2564.1	1.321	0.001	2948.9	1.376	0.004	3333.7	1.304	0.216	3718.5	1.237	0.000
2570.8	1.322	0.001	2955.6	1.378	0.004	3340.5	1.297	0.216	3725.3	1.240	0.000
	1.322	0.001	2962.4	1.381	0.005	3347.2	1.289	0.215	3732.0	1.242	0.000
	1.323	0.001	2969.1	1.383	0.006	3354.0	1.282	0.215	3738.8	1.245	0.000
	1.324	0.001	2975.9	1.386	0.007	3360.7	1.274	0.213	3745.5	1.247	0.000
	1.325	0.001	2982.6	1.388	0.008	3367.5	1.266	0.213	3752.3	1.248	0.000
	1.325	0.001	2989.4	1.391	0.009	3374.2	1.258	0.212	3759.1	1.250	0.000
	1.326	0.001	2996.1	1.394	0.010	3381.0	1.250	0.210	3765.8	1.252	0.000
	1.327	0.001	3002.9	1.396	0.012	3387.7	1.242	0.207	3772.6	1.253	0.000
	1.328	0.001	3009.7	1.399	0.014	3394.5	1.233	0.205	3779.3	1.255	0.000
	1.328	0.001	3016.4	1.402	0.015	3401.2	1.225	0.200	3786.1	1.256	0.000
	1.329	0.001	3023.2	1.405	0.017	3408.0	1.216	0.196	3792.8	1.257	0.000
	1.330	0.001	3029.9	1.407	0.019	3414.7	1.209	0.190	3799.6	1.258	0.000
	1.331	0.001	3036.7	1.410	0.022	3421.5	1.201	0.184	3806.3	1.259	0.000
	1.331	0.001	3043.4	1.414	0.025	3428.2	1.194	0.177	3813.1	1.260	0.000
	1.332	0.001	3050.2	1.416	0.027	3435.0	1.188	0.170	3819.8	1.262	0.000
	1.333	0.002	3056.9	1.419	0.030	3441.7	1.183	0.162	3826.6	1.262	0.000
	1.334	0.002	3063.7	1.422	0.033	3448.5	1.178	0.154	3833.3	1.263	0.000
	1.334	0.000	3070.4	1.425	0.037	3455.2	1.174	0.146	3840.1	1.265	0.000
	1.335	0.002	3077.2	1.427	0.042	3462.0	1.171	0.138	3846.8	1.265	0.000
	1.336	0.002	3083.9	1.430	0.045	3468.7	1.168	0.130	3853.6	1.266	0.000
	1.337	0.002	3090.7	1.432	0.050	3475.5	1.166	0.122	3860.3	1.267	0.000
	1.337	0.002	3097.4	1.434	0.054	3482.2	1.164	0.114	3867.1	1.268	0.000
2719.3	1.338	0.002	3104.2	1.436	0.060	3489.0	1.164	0.106	3873.8	1.269	0.000
	1.339	0.002	3110.9	1.437	0.065	3495.7	1.163	0.098	3880.6	1.269	0.000
	1.340	0.002	3117.7	1.439	0.071	3502.5	1.163	0.091	3887.3	1.270	0.000
	1.340	0.002	3124.4	1.440	0.077	3509.3	1.163	0.083	3894.1	1.271	0.000
	1.341	0.002	3131.2	1.441	0.082	3516.0	1.163	0.076	3900.8	1.272	0.000
	1.342	0.002	3137.9	1.441	0.089	3522.8	1.164	0.068	3907.6	1.272	0.000
	1.343	0.002	3144.7	1.441	0.095	3529.5	1.165	0.060	3914.3	1.273	0.000
	1.344	0.002	3151.4	1.441	0.101	3536.3	1.167	0.053	3921.1	1.273	0.000
	1.345	0.002	3158.2	1.440	0.108	3543.0	1.171	0.046	3927.8	1.274	0.000
	1.345	0.002	3164.9	1.439	0.114	3549.8	1.175	0.038	3934.6	1.275	0.000
	1.347	0.002	3171.7	1.437	0.121	3556.5	1.179	0.032	3941.3	1.275	0.000
	1.348	0.002	3178.4	1.435	0.128	3563.3	1.184	0.027	3948.1	1.276	0.000
	1.349	0.000	3185.2	1.432	0.135	3570.0	1.190	0.023	3954.8	1.276	0.000
	1.350	0.000	3191.9	1.429	0.142	3576.8	1.195	0.019	3961.6	1.277	0.000
	1.351	0.002	3198.7	1.425	0.148	3583.5	1.200	0.016	3968.3	1.278	0.000
	1.352	0.002	3205.4	1.421	0.155	3590.3	1.207	0.013	3975.1	1.278	0.000
	1.353	0.002	3212.2	1.415	0.160	3597.0	1.212	0.011	3981.8	1.279	0.000
	1.355	0.001	3218.9	1.410	0.165	3603.8	1.218	0.010	3988.6	1.279	0.000
	1.356	0.002	3225.7	1.404	0.169	3610.5	1.225	0.010	3995.3	1.280	0.000
	1.357	0.001	3232.4	1.399	0.172	3617.3	1.231	0.012			
	1.358	0.001	3239.2	1.394	0.176	3624.0	1.238	0.017	1		
	1.362	0.002	3245.9	1.390	0.179	3630.8	1.242	0.024	1		
	1.364	0.003	3252.7	1.385	0.182	3637.5	1.240	0.035	1		

TABLE 15B  $H_2O:OCS = 2:1 \text{ AT } 40 \text{ K}$ 

V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )   n   k   V(cm ² )	ıl	Т	_	_	_	_									_	_		_	_		_		_	_										_	_		_	_	_	_	~		~	~	~	_	~					. ~	~	~	~	<del></del>		_
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Marc	=		90.0	90.0	36	0.00	0.005	0.00	0.00			3 5	3 8		3	3	900	300	90.0	99	0.00	0.00	0.00	0.00	000	2		Š	38	3 8	38	3 8	3 8	3 8	38	3 6	5		000	0.0	0.00	0.00	0.00	0.00	0.00	0.00	000	900	96	3,6	300	0.0	0.00	0.00	0.00	3,5	300	0.00
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Marc	=		1.219	1.221	1 224	1.225	1.228	1.230	1.230	1.252	1 236	1 237	1 220	1.238	1.240	1.241	1.242	1.244	1.248	1.252	1.255	1.258	1.261	1.264	1 267	1 269	1 270	1 273	1 276	1.270	1 270	1.207	1.281	1.205	1 287	1 200	1.200	1 291	1.292	1.293	1.294	1.296	1.297	1.299	1.300	1.301	1.302	1.303	405.1	1.303	1.303	1.308	1.309	1.310	1.311	1.312	1.314	1.314
Name   Prop.   Name	v (cm ⁻¹ )		2167.7	2169.6	21/1.3	2175.4	2177.3	2179.2	2181.2	2183.1	2187.0	2188.0	2100.9	2190.6	2192.7	7194.7	2196.6	2198.5	2206.2	2213.0	2219.7	2226.5	2233.2	2240.0	2246.8	2253 5	22603	0.252.0	22027	22/3.0	2200.3	27077	0.4677	2300.0	231/3	72710	2321.0	2334 5	2341.3	2348.0	2354.8	2361.5	2368.3	2375.0	2381.8	2388.5	2395.3	2402.0	2408.8	2415.5	2422.3	2435.8	2442.5	2449.3	2456.0	2462.8	2476.3	2483.0
Name   Prop.   Name		4	0.843	0.810	0.770	0.701	0.664	0.619	0.570	0.515	0.445	0.554	257.0	0.133	0.083	0.048	0.031	0.025	0.021	0.018	0.017	0.015	0.013	0.013	0.013	1100	0.010	0.0	900	200	9.6	200	0.00	0.00	86.0	36	36	0.00	9000	0.007	0.005	9000	9000	900.0	0.005	0.005	0.000	0.000	0.000	0.000	0.00	0.005	0.005	9000	0.006	0.000	0.00	9000
800.         1 May 1         R Month         May 1         R Month         R M	  -	11	1.038	0.988	500	0.858	0.818	0.777	0.737	0.698	0.003	0.039	12.0	0.0/4	0.733	C / / 0	0.048	0.889	0.922	0.949	0.972						9	1.022	1.07	666	1.032	3 2	1.108		1.122	1.126	1.13	1 145	1.151	1.155	1.160	1.165	1.169	1.172	1.176	1.180	<u>25</u> :	1.187	361.1	1.193	1.190	1.200	1.203	1.206	1.209	1.211	1.215	1.217
Name			2053.9	2055.8	2050.7	2061.6	2063.5	2065.4	2067.4	2069.3	20/1.2	20/3.1	2073.1	0.7702	20/8.9	2080.9	2082.8	7.084.7	2086.6	2088.6	2090.5	2092.4	2094.4	2096.3	2008	210012	2100.1	2102:1	2105.0	2103.3	2107.9	2109.0	2111.7	2113.7	2115.0	2110.7	2113.4	2123.3	2125.2	2127.2	2129.1	2131.0	2132.9	2134.9	2136.8	2138.7	2140.7	2142.6	2144.5	2146.4	21503	2152.2	2154.2	2156.1	2158.0	2159.9	2163.8	2165.7
Name	-  -	4	0.005	900	30.0	0000	0.005	90.0	90.0	988	98	0.00	38	90.0	0.00	33.0	0.010	0.011	0.014	0.015	0.019	0.021	0.024	0.027	000	0000	0000	020	0.030	770.0	07070	20.0	0.023	1700	070.0	0.00	0.039	0.03	0.133	0.193	0.262	0.331	0.402	0.470	0.535	0.599	0.657	0.713	0.763	0.807	0.0	0.905	0.921	0.932	0.935	0.930	0.897	0.870
Name	-		1.468	1.471	1.4/4	1481	1.484	1.488	1.492	1.496	1.501	510	016.1	015.1	1.521	1.527							1.573	1.579	1 585	1.50	1 500	1,500	1.000	1.017	1.032	15.1					1.700	1 868	1.910	4	1.963	1.971	1.969	1.956	1.935	1.907	1.872	1.832	1.784	1./31	1.0/5	1.548	1.481	1.414	1.345			
Name			1940.0	1942.0	1945.9	1947.8	1949.7	1951.6	1953.6	1955.5	1957.4	1959.3	1961.3	1963.2	1965.1	1.706.	1969.0	1970.9	1972.8	1974.8	1976.7	1978.6	1980.6	1982.5	1084 4	1086 3	1088 3	1000.2	1990.7	1992.1	1994.1	1990.0	67,601	999.0	2001.8	2003.7	2003.6	2002	2011.4	2013.3	2015.3	2017.2	2019.1	2021.1	2023.0	2024.9	2026.8	2028.8	2030.7	2032.6	2034.0	2038.4	2040.4	2042.3	2044.2	2046.1	2050.0	2051.9
Name	۷-	4	0.063	0.057	0.033	4	0.040	0.037	0.029	0.026	0.021	210.0	0.014	0.011	900	700.0	0.000	90.0	0.002	0.00	0.00	400.0	0.004	0.003	0000	0.00	000			36			0.003	200	0.00	36	5 6	200	0.00	0000	0.007	9000	0.00	0.00	0.00	0.0	0.00	0.00	20.0	0.003	20.0	90.0	0.00	0.004	0.00	9.00	20.0	0.004
Name	-	- 1				1.327	1.328	1.327	1.326	1.328	1.330	1.332	1.557	1.342	1.345	1.348	1.351	1.354	1.357	1.361	1.363	1.365	1.368	1.371	1 374	1 377	1 380	1.200	1.304	1.300	1.200	1.390	1.394	1.397	1.40	1 5	1.409	1415	1417	1.419	1.422	1.424	1.426	1.427	1.430	1.432	1.434	1.436	1.438	94.	1.442	1.47	1.449	1.451	1.454	1.456	1.462	1.465
(cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         k         v (cmr ¹ )         n         x         x         x         n         x         x         x         <	v (cm ⁻¹ )	(CIII)	1674.8	1680.6	1080.4	1698.0	1703.7	1709.5	1715.3	1721.1	720.9	1/32.7	1744.2	1750	1/50.0	8.50.1	1/61.6	1767.4	1773.2	1779.0	1784.8	1790.6	1796.3	1802.1	1807 0	1913.7	1810.5	1975.2	1921 1	1031.1	1030.0	1047.0	1848.4	7.400	1860.0	1003.0	1877.4	1883 1	1888 9	1894.7	1901.5	1903.4	1905.3	1907.3	1909.2	1911.1	1913.0	1915.0	1916.9	1918.8	1920.8	1924.6	1926.5	1928.5	1930.4	1932.3	1936.2	1938.1
(cmr ¹ )         n         k         (cmr ¹ )         n         k         (cmr ¹ )         n         k         (cmr ¹ )           504.9         1.576         0.134         1.576         0.134         1.576         0.134         1.379         0.002         1339.2         1.339.2         1.305         1339.2         1.339.2         1.305         1339.2         1.349         0.002         1345.0         1.379         1.380         0.002         1345.0         1.339.2         1.349         0.002         1345.0         1.339.2         1.349         0.002         1345.0         1.300         1.349.0         1.349         0.002         1345.0         1.002         1345.0         0.002         1345.0         1.002         1345.0         1.002         1345.0         0.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0         1.002         1345.0	<u></u>	4	0.011	0.014	0.0	0.013	0.013	0.013	0.013	0.015	0.013	0.01	210.0	0.015	0.015	0.015	0.013	0.017	0.017	0.015	0.017	0.017	0.017	0.019	0.016	0.014	0.0	0.0	0.0	0.0	0.020	0.020	0.010	0.020	0.022	0.022	0.023	0.023	0.025	0.025	0.021	0.027	0.026	0.024	0.030	0.033	0.035	0.040	0.045	0.032	0.037	0.085	0.092	0.095	0.089	0.084	0.070	0.066
Name	ء		1.356	1.355	1356	1.356	1.357	1.357	1.358	1.358	1.359	1.300	1.201	1.301	1.301	1.301	505.	5.5	1.363	1.364	1.364	1.365	1.365	1.367	1 368	1 367	1360	1 260	1.303	1.270	1.309	1.572	1.3/3	1.074	1.374	1 276	1.376	1,379	1.380	1.380	1.381	1.384	1.385	1.387	1.390	1.392	1.395	1.397	1.400	<u> </u>	404	1.392	1.378	1.366	1.353	1.342	1.337	1.333
Name	v (cm ⁻¹ )	(17)	1333.4	1339.2	1350.8	1356.5	1362.3	1368.1	1373.9	13/9.7	1201.2	1391.3	1407.0	1402.8	1408.6	1414.4	1420.2	1420.0	1431.8	1437.6	1443.3	1449.1	1454.9	1460.7	1466 5	1472 3	1478 1	1702.0	1480.6	1405.0	1493.4	1507.0	1507.0	1510.5	1524.4	1530 1	1535.0	1541.7	1547.5	1553.3	1559.1	1564.9	1570.7	1576.4	1582.2	1588.0	1593.8	1599.6	1605.4	1611.2	1622.7	1628.5	1634.3	1640.1	1645.9	1651.7	1663.2	1669.0
Cum-1   n		4	0.002	0.002	2000	0.002	0.003	0.005	0.008	0.011	10.0	86	2007	200	500	0.00	2000	0.000	0.003	0.003	0.003	0.003	0.003	000.0	0 003	0000	0.00	0000	000	2000	2000	200.0	000	2000	2000	00.0	0.00	800.0	000	0.005	0.00	0.008	0.008	0.003	0.007	0.007	0.007	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.012	0.012	0.012	0.012
Cem-1         n         k         v (cm-1)         n         k           504.9         1.570         0.044         816.4         1.244         0.201           510.7         1.576         0.113         818.4         1.240         0.193           510.7         1.576         0.113         818.4         1.240         0.193           528.1         1.487         0.042         820.2         1.239         0.193           533.8         1.447         0.040         820.2         1.239         0.193           553.6         1.447         0.040         820.2         1.235         0.184           553.7         1.447         0.040         820.2         1.235         0.184           553.8         1.447         0.040         820.1         1.233         0.184           553.6         1.528         0.039         820.1         1.232         0.184           554.2         1.506         0.052         831.9         1.239         0.175           555.2         1.527         0.043         820.9         1.232         0.184           557.0         1.538         0.052         831.9         1.229         0.117	=	=	1.281	1.286	1 202	1.296	1.300	1.303	1.306	456	1.302	1.300	2021	1.307	1.310	CIC.1	1.514	C15.1	1.317	1.318	1.319	1.322	1.324	1.325	1 326	328	1 320	1 331	1 333	1.224	1.224	1 224	1.534	1 225	1.330	1 338	1 330	1341	134	1.340	1.343	1.343	1.343	1.346	1.346	1.346	1.348	1.349	1.348	1.546	1350	1.351	1.353	1.352	1.352	1.352	1.353	1:355
(cm-1)         n         k         v (cm-1)         n           504.9         1.570         0.044         816.4         1.24           516.5         1.570         0.044         816.4         1.24           516.5         1.576         0.113         818.4         1.24           522.3         1.487         0.042         820.3         1.238           533.8         1.447         0.042         820.2         1.238           534.4         1.601         820.3         1.239           551.2         1.447         0.040         824.2         1.233           552.8         1.447         0.040         824.2         1.233           552.8         1.447         0.040         824.2         1.233           552.8         1.447         0.040         824.2         1.233           552.8         1.447         0.040         824.2         1.238           552.8         1.511         0.044         824.2         1.238           552.8         1.511         0.044         824.2         1.238           552.8         1.511         0.044         824.2         1.238           552.8         1.521         0	v (cm ⁻¹ )	(CIII )	992.0	997.8	1009.3	1015.1	1020.9	1026.7	1032.5	1038.3	0.00	1049.6	1033.0	1001.4	7./001	10/3.0	10/8.8	1084.6	1090.3	1096.1	1101.9	1107.7	1113.5	1119.3	1125.1	1130.8	1136.6	1142.4	1142.4	11540	1150.0	1155.6	1105.0	11/1.4	1182 0	1188 7	1194 5	1200.3	1206.1	1211.9	1217.7	1223.4	1229.2	1235.0	1240.8	1246.6	1252.4	1258.2	1263.9	1209.7	12813	1287.1	1292.9	1298.7	1304.5	1316.0	1321.8	1327.6
Cem-1   n	<u></u>	4	0.20;	0.197	193	0.188	0.184	0.184	0.179	0.175	0.170	0.170	0.100	0.100	0.101	201.0	0.130	0.155	0.155	0.158	0.169	0.178	0.183	0.184	0 174	0.154	0.141	301.0	0.16	2110	2117	201.0	200	200	0.09	000	0.00	0.086	0.086	0.082	0.078	0.074	0.074	0.00	990.0	0.058	0.054	7 50.0	0.039	0000	0.020	0.018	0.015	0.011	0.011	0.00	0.005	0.002
Cem-1   n	ء		1.244	1.240	1 238	1.235	1.233	1.232	1.232	1.230	677.1	1 220	1.229	1.228	677.1	677.1	1.231	1.232	1.235	1.237	1.238	1.230	1.217	1.201	1 185	1 177	1.176	1177	1.187	1.102	1.10/	1.171	1.192	1.174	1.190	1 108	1,200	1.202	1.204	1.203	1.205	1.205	1.206	1.208	1.209	1.211	1.217	1.220	577.1	1.227	1 238	1.242	1.248	1.254	1.257	1 268	1.272	1.278
(cm ⁻¹ ) n 504.9   1.570 510.7   1.576 533.8   1.473 533.8   1.473 534.4   1.573 535.2   1.447 535.2   1.447 536.2   1.511 536.2   1.511 536.2   1.511 536.3   1.523 536.1   1.523 536.1   1.523 536.2   1.523 536.1   1.523 536.1   1.523 536.2   1.523 536.3   1.523 536.1   1.523 536.1   1.523 536.2   1.523 536.2   1.523 536.3   1.523 536.3   1.523 536.4   1.523 536.4   1.523 536.5   1.523 536.6   1.523 536.7   1.523 536.8   1.523 536.9   1.523 536.9   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.523 772.8   1.477 772.8   1.477 773.1   1.323 774.8   1.335 775.3   1.326 776.9   1.335 776.9   1.263 880.8   1.254 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.257 880.6   1.247 880.6   1.247	v (cm ⁻¹ )	1 1 2 2	816.4	818.4	822.3	824.2	826.1	828.0	829.9	831.9	935.7	933.7	930.6	639.0	641.5	945.4	4.0.40	847.3	849.2	851.2	853.1	855.0	826.9	858.9	8,098	7 698	864.7	9,998	868.5	0.000	4.070	677.3	0.4.5	7.070	0.0.7 880 1	882.0	883.0	885.9	887.8	889.7	891.7	893.6	895.5	897.5	899.4	905.2	911.0	916.7	227.3	920.5	930.0	945.7	951.5	957.2	963.0	908.8	980.4	986.2
(cm ⁻¹ ) n 504.9   1.570 510.7   1.576 533.8   1.473 533.8   1.473 534.4   1.573 535.2   1.447 535.2   1.447 536.2   1.511 536.2   1.511 536.2   1.511 536.3   1.523 536.1   1.523 536.1   1.523 536.2   1.523 536.1   1.523 536.1   1.523 536.2   1.523 536.3   1.523 536.1   1.523 536.1   1.523 536.2   1.523 536.2   1.523 536.3   1.523 536.3   1.523 536.4   1.523 536.4   1.523 536.5   1.523 536.6   1.523 536.7   1.523 536.8   1.523 536.9   1.523 536.9   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.447 771.1   1.523 772.8   1.477 772.8   1.477 773.1   1.323 774.8   1.335 775.3   1.326 776.9   1.335 776.9   1.263 880.8   1.254 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.256 880.9   1.257 880.6   1.247 880.6   1.247		4	0.0 4	0.113	0.107	0.042	0.030	0.039	0.043	20.0	90.0	9.00	3 6	2/00	0.081	0.00	767	0.10	0.112	0.125	0.128	0.140	0.143	0.155	0.162	0 174	0.182	180	0.107	1000	0.20	217.0	0.213	0.22	0.231	0.238	0.230	0.250	0.254	0.254	0.262	0.262	0.262	0.262	0.262	0.263	0.258	0.234	0.230	0.243	0.241	0.224	0.219	0.219	0.215	0.211	0.206	0.202
(cm-1) 204.9 204.9 204.9 204.9 204.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9 205.9	ء																																																									
	v (cm ⁻¹ )	100	504.9	510.7	522.3	528.1	533.8	539.6	545.4	551.2	567.8	262.6	574.4	500.1	380.1	203.9	291.7	0.760	603.3	609.1	614.9	9.029	626.4	632.2	638.0	643.8	649.6	655.4	2.13	7:100	670.7	679.5	6643	600	6959	7017	707.4	713.2	719.0	724.8	730.6	736.4	742.2	748.0	753.7	759.5	765.3	776.0	787	789.5	794 3	801.0	802.9	804.9	806.8	806./	812.6	814.5

TABLE 15B—Continued

				IABL	E 13 <b>B</b> —	-Continue	<u>a</u>				
ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2489.8	1.315	0.002	2874.6	1.371	0.006	3259.5	1.381	0.210	3644.3	1.230	0.042
2496.6	1.317	0.002	2881.4	1.372	0.009	3266.2	1.375	0.214	3651.0	1.218	0.042
2503.3	1.317	0.002	2888.1	1.370	0.011	3273.0	1.368	0.218	3657.8	1.209	0.033
2510.1	1.318	0.002	2894.9	1.369	0.011 0.010	3279.7 3286.5	1.361	0.223 0.227	3664.5 3671.3	1.205 1.206	0.023
2516.8	1.318	0.002	2901.6	1.368 1.369	0.010	3293.2	1.353 1.344	0.227		1.211	0.012
2523.6 2530.3	1.319 1.320	0.001 0.002	2908.4 2915.1	1.370	0.007	3300.0	1.335	0.230	3678.0 3684.8	1.211	0.005 0.000
2537.1	1.321	0.002	2913.1	1.372	0.007	3306.7	1.325	0.232	3691.5	1.223	0.000
2543.8	1.322	0.001	2928.6	1.374	0.005	3313.5	1.316	0.233	3698.3	1.227	0.000
2550.6	1.322	0.001	2935.4	1.377	0.003	3320.2	1.307	0.234	3705.0	1.231	0.000
2557.3	1.323	0.001	2942.1	1.379	0.004	3327.0	1.299	0.234	3711.8	1.234	0.000
2564.1	1.324	0.001	2948.9	1.382	0.004	3333.7	1.290	0.232	3718.5	1.238	0.000
2570.8	1.325	0.001	2955.6	1.385	0.005	3340.5	1.282	0.231	3725.3	1.240	0.000
2577.6	1.326	0.001	2962.4	1.388	0.005	3347.2	1.274	0.230	3732.0	1.241	0.000
2584.3	1.326	0.001	2969.1	1.391	0.006	3354.0	1.266	0.229	3738.8	1.244	0.000
2591.1	1.327	0.001	2975.9	1.393	0.008	3360.7	1.258	0.226	3745.5	1.245	0.000
2597.8	1.328	0.001	2982.6	1.396	0.009	3367.5	1.250	0.225	3752.3	1.247	0.000
2604.6	1.329	0.001	2989.4	1.399	0.010	3374.2	1.241	0.223	3759.1	1.249	0.000
2611.3	1.330	0.001	2996.1	1.402	0.011	3381.0	1.232	0.220	3765.8	1.250	0.000
2618.1	1.330	0.001	3002.9	1.404	0.013	3387.7	1.224	0.216	3772.6	1.252	0.000
2624.8	1.331	0.001	3009.7	1.408	0.015	3394.5	1.216	0.212	3779.3	1.253	0.000
2631.6	1.332	0.001	3016.4	1.411	0.016	3401.2	1.207	0.207	3786.1	1.255	0.000
2638.3	1.333	0.002	3023.2	1.414	0.018	3408.0	1.199	0.202	3792.8	1.256	0.000
2645.1	1.333	0.002	3029.9	1.417	0.021	3414.7	1.192	0.195	3799.6	1.257	0.000
2651.8	1.334	0.002	3036.7	1.421	0.024	3421.5	1.184	0.187	3806.3	1.258	0.000
2658.6	1.335	0.002	3043.4	1.424	0.026	3428.2	1.178	0.181	3813.1	1.259	0.000
2665.3	1.336	0.002	3050.2	1.428	0.030	3435.0	1.171	0.172	3819.8	1.260	0.000
2672.1	1.337	0.002	3056.9	1.431	0.033	3441.7	1.166	0.164	3826.6	1.261	0.000
2678.8	1.337	0.002	3063.7	1.434	0.037	3448.5	1.161	0.154	3833.3	1.262	0.000
2685.6	1.338	0.000	3070.4	1.437	0.040	3455.2 3462.0	1.158	0.145	3840.1 3846.8	1.264 1.264	0.000
2692.3 2699.1	1.339 1.339	0.002 0.002	3077.2 3083.9	1.440 1.443	0.045 0.050	3462.0	1.156 1.153	0.136 0.127	3853.6	1.264	0.000
2705.8	1.340	0.002	3090.7	1.445	0.056	3475.5	1.153	0.127	3860.3	1.266	0.000
2712.6	1.341	0.002	3097.4	1.447	0.060	3482.2	1.151	0.110	3867.1	1.267	0.000
2719.3	1.342	0.002	3104.2	1.450	0.067	3489.0	1.151	0.102	3873.8	1.267	0.000
2726.1	1.342	0.002	3110.9	1.452	0.073	3495.7	1.151	0.095	3880.6	1.268	0.000
2732.8	1.344	0.002	3117.7	1.453	0.080	3502.5	1.151	0.086	3887.3	1.269	0.000
2739.6	1.344	0.002	3124.4	1.454	0.086	3509.3	1.151	0.078	3894.1	1.270	0.000
2746.4	1.345	0.002	3131.2	1.454	0.093	3516.0	1.153	0.070	3900.8	1.270	0.000
2753.1	1.346	0.000	3137.9	1.455	0.100	3522.8	1.154	0.062	3907.6	1.271	0.000
2759.9	1.347	0.000	3144.7	1.454	0.108	3529.5	1.157	0.053	3914.3	1.271	0.000
2766.6	1.348	0.002	3151.4	1.454	0.115	3536.3	1.160	0.046	3921.1	1.272	0.000
2773.4	1.349	0.002	3158.2	1.453	0.123	3543.0	1.165	0.038	3927.8	1.273	0.000
2780.1	1.350	0.000	3164.9	1.451	0.130	3549.8	1.170	0.032	3934.6	1.273	0.000
2786.9	1.351	0.000	3171.7	1.449	0.138	3556.5	1.175	0.026	3941.3	1.274	0.000
2793.6	1.353	0.002	3178.4	1.445	0.146	3563.3	1.181	0.021	3948.1	1.274	0.000
2800.4	1.354	0.002	3185.2	1.442	0.153	3570.0	1.187	0.017	3954.8	1.275	0.000
2807.1	1.355	0.002	3191.9	1.438	0.161	3576.8	1.192	0.014	3961.6	1.276	0.000
2813.9	1.356	0.002	3198.7	1.433	0.167	3583.5	1.198	0.012	3968.3	1.276	0.000
2820.6	1.357	0.002	3205.4	1.428	0.174	3590.3	1.204	0.010	3975.1	1.277	0.000
2827.4	1.358	0.002	3212.2	1.422	0.180	3597.0	1.210	0.008	3981.8	1.277	0.000
2834.1	1.359	0.002	3218.9	1.415	0.185	3603.8	1.216	0.007	3988.6	1.278	0.000
2840.9	1.361	0.002	3225.7	1.409	0.189	3610.5	1.222	0.007	3995.3	1.279	0.000
2847.6	1.362	0.002	3232.4	1.403	0.193	3617.3	1.229	0.009	l		
2854.4	1.364	0.002	3239.2	1.398	0.197	3624.0	1.236	0.014			
2861.1	1.366	0.002	3245.9	1.392	0.200	3630.8	1.241	0.021			
2867.9	1.369	0.003	3252.7	1.387	0.205	3637.5	1.239	0.034	L		

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        k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         v (cm ⁻¹ )         n | k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n    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1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345         1345 | k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         v (cm ⁻¹ )         n | k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n     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       M         M         M         M         M         M         M         M         M         M         M         M         M         M | National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   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Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Pr | K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   K   V(cm ² )   n   N   N   V(cm ² )   n   N   V(c | K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² n         K         VCm ² N         N         M         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N | K         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         V(cm ² )         n         k         N         n         k         N         n         k         N         n         k         N         n         k         N         n         k         N         n         k         N         n         n         n         k         n         k         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n <th< td=""><td>K         V(cm²)         m         K         V(cm²)         n         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N</td><td>  K</td><td>  V(cm²)   N   K   V(cm²)   D   V   V(cm²)   D   V   V   V   V   V   V   V   V   V</td></th<> | K         V(cm ² )         m         K         V(cm ² )         n         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N | K              | V(cm ² )   N   K   V(cm ² )   D   V   V(cm ² )   D   V   V   V   V   V   V   V   V   V |

2167.7 2167.7 2173.4 2173.4 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2187.0 2188.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2198.5 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 2199.7 21

597.5 603.3 603.3 603.3 620.6 620.6 632.2 632.2 632.2 632.2 632.2 643.8 661.2 661.2 661.2 661.2 672.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7 701.7

TABLE 15C—Continued

ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2489.8	1.321	0.002	2874.6	1.381	0.005	3259.5	1.373	0.266	3644.3	1.228	0.030
2496.6	1.322	0.002	2881.4	1.382	0.009	3266.2	1.362	0.270	3651.0	1.215	0.032
2503.3	1.323	0.002	2888.1	1.381	0.010	3273.0	1.352	0.274	3657.8	1.206	0.022
2510.1	1.323	0.002	2894.9	1.380	0.010	3279.7	1.340	0.277	3664.5	1.206	0.010
2516.8	1.324	0.002	2901.6	1.380	0.010	3286.5	1.328	0.279	3671.3	1.211	0.000
2523.6	1.325	0.002	2908.4	1.380	0.008	3293.2	1.316	0.279	3678.0	1.217	0.000
2530.3	1.326	0.001	2915.1	1.382	0.007	3300.0	1.304	0.278	3684.8	1.221	0.000
2537.1	1.327	0.001	2921.9	1.384	0.006	3306.7	1.292	0.278	3691.5	1.226	0.000
2543.8	1.328	0.001	2928.6	1.387	0.005	3313.5	1.280	0.274	3698.3	1.230	0.000
2550.6	1.328	0.001	2935.4	1.389	0.004	3320.2	1.270	0.272 0.268	3705.0 3711.8	1.233 1.235	0.000
2557.3	1.329	0.001	2942.1	1.393	0.004 0.005	3327.0 3333.7	1.260 1.250	0.263	3711.8	1.233	0.000
2564.1	1.330 1.331	0.001 0.001	2948.9 2955.6	1.396 1.399	0.005	3340.5	1.241	0.260	3716.3	1.240	0.000
2570.8 2577.6	1.332	0.001	2962.4	1.401	0.005	3347.2	1.232	0.255	3732.0	1.241	0.000
2584.3	1.332	0.002	2969.1	1.405	0.007	3354.0	1.224	0.251	3738.8	1.244	0.000
2591.1	1.333	0.002	2975.9	1.408	0.008	3360.7	1.216	0.246	3745.5	1.245	0.000
2597.8	1.334	0.002	2982.6	1,411	0.010	3367.5	1.208	0.242	3752.3	1.247	0.000
2604.6	1.335	0.002	2989.4	1.414	0.011	3374.2	1.198	0.237	3759.1	1.248	0.000
2611.3	1.336	0.002	2996.1	1.418	0.013	3381.0	1.190	0.232	3765.8	1.249	0.000
2618.1	1.337	0.002	3002.9	1.422	0.013	3387.7	1.184	0.226	3772.6	1.251	0.000
2624.8	1.337	0.002	3009.7	1.425	0.015	3394.5	1.175	0.220	3779.3	1.252	0.000
2631.6	1.338	0.002	3016.4	1.429	0.017	3401.2	1.166	0.212	3786.1	1.253	0.000
2638.3	1.339	0.002	3023.2	1.433	0.020	3408.0	1.159	0.204	3792.8	1.254	0.000
2645.1	1.340	0.002	3029.9	1.437	0.022	3414.7	1.154	0.195	3799.6	1.255	0.000
2651.8	1.340	0.000	3036.7	1.441	0.025	3421.5	1.147	0.186	3806.3	1.256	0.000
2658.6	1.342	0.002	3043.4	1.446	0.028	3428.2	1.141	0.178	3813.1	1.257	0.000
2665.3	1.342	0.002	3050.2	1.450	0.033	3435.0	1.136	0.168	3819.8	1.258	0.000
2672.1	1.344	0.002	3056.9	1.455	0.036	3441.7	1.131	0.156	3826.6	1.259	0.000
2678.8	1.345	0.002	3063.7	1.459	0.042	3448.5	1.128	0.145	3833.3	1.260	0.000
2685.6	1.345	0.000	3070.4	1.463	0.047	3455.2	1.126	0.134	3840.1	1.262	0.000
2692.3	1.346	0.000	3077.2	1.468	0.052	3462.0	1.126	0.124	3846.8	1.262	0.000
2699.1	1.347	0.002	3083.9	1.472	0.059	3468.7	1.125	0.114	3853.6	1.262	0.000
2705.8	1.348	0.002	3090.7	1.475	0.066	3475.5	1.126	0.104	3860.3	1.264	0.000
2712.6	1.349	0.002	3097.4	1.479	0.073	3482.2	1.127	0.095	3867.1	1.265	0.000
2719.3	1.350	0.002	3104.2	1.481	0.082	3489.0	1.128	0.086	3873.8	1.265	0.000
2726.1	1.350	0.002	3110.9	1.483	0.090	3495.7	1.130	0.077	3880.6	1.266	0.000
2732.8	1.352	0.002	3117.7	1.485	0.099	3502.5	1.133	0.068	3887.3	1.267	0.000
2739.6	1.352	0.002	3124.4	1.486	0.108	3509.3	1.136	0.060	3894.1	1.267	0.000
2746.4	1.353	0.002	3131.2	1.487	0.117	3516.0	1.139	0.052	3900.8	1.268	0.000
2753.1	1.354	0.001	3137.9	1.486	0.127	3522.8	1.143	0.045	3907.6	1.269	0.000
2759.9	1.355	0.002	3144.7	1.485	0.137	3529.5	1.147	0.036	3914.3	1.270	0.000
2766.6	1.356	0.002	3151.4	1.483	0.147	3536.3	1.153	0.030	3921.1	1.270	0.000
2773.4	1.357	0.002	3158.2	1.481	0.157	3543.0	1.159	0.025	3927.8	1.271	0.000
2780.1	1.358	0.001	3164.9	1.477	0.167	3549.8	1.165	0.020	3934.6	1.272	0.000
2786.9	1.360	0.001	3171.7	1.473	0.176	3556.5	1.171	0.016	3941.3	1.272	0.000
2793.6	1.361	0.002	3178.4	1.469	0.186	3563.3	1.177	0.013	3948.1	1.272	0.000
2800.4	1.362	0.002	3185.2	1.463	0.195	3570.0	1.183	0.010	3954.8	1.273	0.000
2807.1	1.364	0.002	3191.9	1.457	0.204	3576.8	1.188	0.007	3961.6	1.274	0.000
2813.9	1.364	0.002	3198.7	1.450	0.212	3583.5	1.193	0.006	3968.3	1.275	0.000
2820.6	1.366	0.002	3205.4	1.443	0.220	3590.3	1.198	0.004	3975.1	1.275	0.000
2827.4	1.367	0.002	3212.2	1.435	0.228	3597.0	1.203	0.004	3981.8	1.276	0.000
2834.1	1.368	0.002	3218.9	1.427	0.234	3603.8	1.208	0.002	3988.6	1.277	0.000
2840.9	1.370	0.002	3225.7	1.418	0.241	3610.5	1.214	0.001	3995.3	1.277	0.000
2847.6	1.372	0.001	3232.4	1.410 1.401	0.246	3617.3 3624.0	1.219 1.226	0.002			
2854.4	1.373	0.002	3239.2	1.401	0.251 0.257	3624.0 3630.8	1.226	0.005			
2861.1	1.375	0.002	3245.9		0.257	3627.5	1.235				
2867.9	1.378	0.003	3252.7	1.383	0.201	3637.5	1.233	0.020	l		

TABLE 15D  $H_2$ O:OCS = 2:1 AT 100 K

×	0.012 0.012 0.012 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0
a c	1304 1304 1306 1306 1306 1307 1308 1318 1318 1318 1318 1318 1318 1318
v (cm ⁻¹ )	2169.6 2171.5 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 2177.3 21
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k	0.00033840000000000000000000000000000000
E	1327 1327 1327 1327 1327 1327 1328 1338 1338 1338 1338 1338 1338 1338
v (cm ⁻¹ )	
×	0.016 0.016 0.016 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017 0.017
l c	1344 1350 1350 1350 1350 1350 1350 1350 1350
v (cm ⁻¹ )	1339.7 1339.2 1345.0 1350.8 1350.8 1350.8 1350.8 1350.8 1373.3 1391.3 1391.3 1391.3 1391.3 1391.3 1391.3 1444.4 1444.4 1444.4 1444.4 1444.4 1444.1 1444.4 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1444.1 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1501.2 1602.1 1603.1 1645.9 1645.9
×	0.000000000000000000000000000000000000
[[	1256 1275 1275 1275 1275 1275 1275 1275 1275
v (cm ⁻¹ )	992.0 997.8 1003.5 1003.5 1003.5 1003.5 1003.5 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004.0 1004
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E	1.292 1.292 1.292 1.293 1.293 1.293 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203 1.203
v (cm ⁻¹ )	818.4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
×	0.006 0.0075 0.0075 0.0075 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0077 0.0
E	
v (cm ⁻¹ )	504.9 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 516.5 51

TABLE 15D—Continued

v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2489.8	1.339	0.004	2874.6	1.392	0.003	3259.5	1.349	0.342	3644.3	1.222	0.007
2496.6	1.340	0.004	2881.4	1.394	0.004	3266.2	1.331	0.344	3651.0	1.221	0.006
2503.3	1.341	0.004	2888.1	1.396	0.005	3273.0	1.312	0.342	3657.8	1.221	0.003
2510.1	1.341	0.004	2894.9	1.398	0.006	3279.7	1.295	0.341	3664.5	1.223	0.000
2516.8	1.342	0.004	2901.6	1.398	0.007	3286.5	1.277	0.336	3671.3	1.226	0.000
2523.6	1.342	0.004	2908.4	1.398	0.006	3293.2	1.261	0.332	3678.0	1.230	0.000
2530.3	1.343	0.003	2915.1	1.400	0.005	3300.0	1.246	0.324	3684.8	1.231	0.000
2537.1	1.343	0.003	2921.9	1.403	0.005	3306.7	1.231	0.315	3691.5	1.234	0.000
2543.8	1.344	0.003	2928.6	1.405	0.004	3313.5	1.219	0.306	3698.3	1.236	0.000
2550.6	1.345	0.003	2935.4	1.408	0.004	3320.2	1.208	0.296	3705.0	1.238	0.000
2557.3	1.346	0.003	2942.1	1.411	0.004	3327.0	1.198	0.287	3711.8	1.239	0.000
2564.1	1.346	0.003	2948.9	1.414	0.004	3333.7	1.190	0.276	3718.5	1.241	0.000
2570.8	1.347	0.003	2955.6	1.417	0.005	3340.5	1.182	0.268	3725.3	1.243	0.000
2577.6	1.348	0.003	2962.4	1.420	0.005	3347.2	1.176	0.260	3732.0	1.243	0.000
	1.348	0.003	2962.4	1.423	0.003	3354.0	1.176	0.250	3738.8	1.244	0.000
2584.3	1.346					3360.7			3745.5	1.246	
2591.1	1.349	0.003	2975.9	1.427	0.008		1.163	0.242			0.000
2597.8		0.003	2982.6	1.430	0.009	3367.5	1.157	0.234	3752.3	1.248	0.000
2604.6	1.350	0.002	2989.4	1.434	0.010	3374.2	1.150	0.226	3759.1	1.250	0.000
2611.3	1.350	0.002	2996.1	1.438	0.011	3381.0	1.145	0.218	3765.8	1.251	0.000
2618.1	1.351	0.002	3002.9	1.442	0.012	3387.7	1.141	0.211	3772.6	1.253	0.000
2624.8	1.352	0.002	3009.7	1.446	0.014	3394.5	1.135	0.201	3779.3	1.253	0.000
2631.6	1.353	0.002	3016.4	1.451	0.015	3401.2	1.130	0.191	3786.1	1.255	0.000
2638.3	1.354	0.002	3023.2	1.455	0.017	3408.0	1.126	0.181	3792.8	1.255	0.000
2645.1	1.355	0.002	3029.9	1.461	0.019	3414.7	1.122	0.171	3799.6	1.256	0.000
2651.8	1.355	0.002	3036.7	1.466	0.022	3421.5	1.119	0.161	3806.3	1.258	0.000
2658.6	1.356	0.002	3043.4	1.472	0.026	3428.2	1.116	0.151	3813.1	1.259	0.000
2665.3	1.357	0.002	3050.2	1.478	0.029	3435.0	1.113	0.140	3819.8	1.259	0.000
2672.1	1.358	0.002	3056.9	1.485	0.033	3441.7	1.112	0.128	3826.6	1.261	0.000
2678.8	1.359	0.002	3063.7	1.491	0.038	3448.5	1.112	0.117	3833.3	1.262	0.000
2685.6	1.359	0.002	3070.4	1.498	0.044	3455.2	1.113	0.105	3840.1	1.263	0.000
2692.3	1.360	0.002	3077.2	1.505	0.051	3462.0	1.116	0.096	3846.8	1.264	0.000
2699.1	1.362	0.002	3083.9	1.512	0.059	3468.7	1.118	0.086	3853.6	1.264	0.000
2705.8	1.362	0.002	3090.7	1.518	0.069	3475.5	1.122	0.077	3860.3	1.266	0.000
2712.6	1.363	0.002	3097.4	1.523	0.079	3482.2	1.125	0.068	3867.1	1.266	0.000
2719.3	1.363	0.002	3104.2	1.528	0.091	3489.0	1.130	0.060	3873.8	1.267	0.000
2726.1	1.365	0.002	3110.9	1.532	0.103	3495.7	1.134	0.053	3880.6	1.267	0.000
2732.8	1.365	0.002	3117.7	1.535	0.116	3502.5	1.139	0.047	3887.3	1.269	0.000
2739.6	1.366	0.002	3124.4	1.537	0.129	3509.3	1.144	0.041	3894.1	1.269	0.000
2746.4	1.367	0.002	3131.2	1.537	0.143	3516.0	1.149	0.036	3900.8	1.269	0.000
2753.1	1.368	0.002	3137.9	1.536	0.158	3522.8	1.154	0.030	3907.6	1.270	0.000
2759.9	1.369	0.002	3144.7	1.534	0.172	3529.5	1.159	0.026	3914.3	1.271	0.000
2766.6	1.370	0.002	3151.4	1.530	0.186	3536.3	1.164	0.023	3921.1	1.272	0.000
2773.4	1.371	0.002	3158.2	1.526	0.200	3543.0	1.169	0.019	3927.8	1.272	0.000
2780.1	1.372	0.002	3164.9	1.520	0.214	3549.8	1.173	0.016	3934.6	1.273	0.000
2786.9	1.373	0.002	3171.7	1.513	0.228	3556.5	1.178	0.014	3941.3	1.273	0.000
2793.6	1.375	0.002	3178.4	1.505	0.240	3563.3	1.183	0.011	3948.1	1.274	0.000
2800.4	1.376	0.002	3185.2	1.496	0.253	3570.0	1.187	0.010	3954.8	1.274	0.000
2807.1	1.377	0.002	3191.9	1.487	0.265	3576.8	1.191	0.009	3961.6	1.275	0.000
2813.9	1.378	0.002	3198.7	1.476	0.276	3583.5	1.195	0.006	3968.3	1.275	0.000
2820.6	1.379	0.002	3205.4	1.465	0.287	3590.3	1.199	0.006	3975.1	1.276	0.000
2827.4	1.380	0.003	3212.2	1.453	0.295	3597.0	1.202	0.004	3981.8	1.276	0.000
2834.1	1.382	0.003	3218.9	1.440	0.306	3603.8	1.206	0.004	3988.6	1.277	0.000
2840.9	1.383	0.003	3225.7	1.427	0.313	3610.5	1.209	0.002	3995.3	1.278	0.000
2847.6	1.385	0.003	3232.4	1.413	0.321	3617.3	1.213	0.002	3773.3		0.000
2854.4	1.387	0.003	3239.2	1.398	0.328	3624.0	1.216	0.002			
2861.1	1.389	0.003	3245.9	1.382	0.328	3630.8	1.220	0.002			
2867.9	1.390	0.003	3252.7	1.366	0.338	3637.5	1.222	0.002			
2001.9	1.370	0.003	3232.1	1.300	0.336	2031.3	1.444	0.003			

TABLE 15E  $H_2$ O:OCS = 2:1 AT 120 K

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TABLE 15E—Continued

v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2489.8	1.340	0.004	2874.6	1.394	0.004	3259.5	1.341	0.347	3644.3	1.222	0.004
2496.6	1.340	0.004	2881.4	1.396	0.004	3266.2	1.322	0.349	3651.0	1.222	0.003
2503.3	1.341	0.004	2888.1	1.398	0.005	3273.0	1.304	0.348	3657.8	1.223	0.001
2510.1	1.342	0.004	2894.9	1.400	0.006	3279.7	1.286	0.343	3664.5	1.225	0.000
2516.8	1.342	0.004	2901.6	1.400	0.008	3286.5	1.269	0.339	3671.3	1.227	0.000
2523.6	1.343	0.004	2908.4	1.400	0.007	3293.2	1.252	0.333	3678.0	1.231	0.000
2530.3	1.343	0.004	2915.1	1.402	0.006	3300.0	1.237	0.324	3684.8	1.232	0.000
2537.1	1.344	0.004	2921.9	1.405	0.005	3306.7	1.222	0.315	3691.5	1.235	0.000
2543.8	1.344	0.003	2928.6	1.407	0.005	3313.5	1.211	0.305	3698.3	1.236	0.000
2550.6	1.345	0.003	2935.4	1.410	0.005	3320.2	1.199	0.294	3705.0	1.238	0.000
2557.3	1.346	0.003	2942.1	1.413	0.005	3327.0	1.191	0.285	3711.8	1.240	0.000
2564.1	1.347	0.003	2948.9	1.416	0.006	3333.7	1.182	0.274	3718.5	1.242	0.000
2570.8	1.347	0.003	2955.6	1.419	0.006	3340.5	1.177	0.266	3725.3	1.243	0.000
2577.6	1.348	0.003	2962.4	1.423	0.008	3347.2	1.169	0.255	3732.0	1.243	0.000
2584.3	1.349	0.003	2969.1	1.425	0.008	3354.0	1.163	0.247	3738.8	1.246	0.000
2591.1	1.349	0.003	2975.9	1.429	0.010	3360.7	1.158	0.238	3745.5	1.248	0.000
2597.8	1.350	0.003	2982.6	1.432	0.011	3367.5	1.153	0.230	3752.3	1.249	0.000
2604.6	1.350	0.002	2989.4	1.436	0.012	3374.2	1.146	0.221	3759.1	1.250	0.000
2611.3	1.350	0.003	2996.1	1.440	0.013	3381.0	1.142	0.213	3765.8	1.251	0.000
2618.1	1.352	0.002	3002.9	1.444	0.014	3387.7	1.138	0.205	3772.6	1.253	0.000
2624.8	1.353	0.002	3009.7	1.448	0.017	3394.5	1.133	0.197	3779.3	1.253	0.000
2631.6	1.354	0.002	3016.4	1.452	0.018	3401.2	1.128	0.186	3786.1	1.254	0.000
2638.3	1.354	0.002	3023.2	1.457	0.020	3408.0	1.125	0.177	3792.8	1.255	0.000
2645.1	1.355	0.002	3029.9	1.462	0.022	3414.7	1.122	0.166	3799.6	1.256	0.000
2651.8	1.356	0.002	3036.7	1.467	0.025	3421.5	1.118	0.156	3806.3	1.257	0.000
2658.6	1.357	0.002	3043.4	1.473	0.028	3428.2	1.115	0.147	3813.1	1.258	0.000
2665.3	1.358	0.002	3050.2	1.479	0.032	3435.0	1.114	0.136	3819.8	1.260	0.000
2672.1	1.358	0.002	3056.9	1.485	0.036	3441.7	1.112	0.126	3826.6	1.260	0.000
2678.8	1.359	0.002	3063.7	1.492	0.042	3448.5	1.112	0.114	3833.3	1.261	0.000
2685.6	1.360	0.002	3070.4	1.498	0.047	3455.2	1.114	0.103	3840.1	1.263	0.000
2692.3	1.361	0.002	3077.2	1.505	0.054	3462.0	1.116	0.093	3846.8	1.263	0.000
2699.1	1.362	0.002	3083.9	1.511	0.062	3468.7	1.118	0.083	3853.6	1.263	0.000
2705.8	1.362	0.002	3090.7	1.518	0.071	3475.5	1.122	0.074	3860.3	1.265	0.000
2712.6	1.363	0.002	3097.4	1.523	0.080	3482.2	1.126	0.065	3867.1	1.266	0.000
2719.3	1.364	0.002	3104.2	1.529	0.092	3489.0	1.130	0.058	3873.8	1.266	0.000
2726.1	1.365	0.002	3110.9	1.533	0.105	3495.7	1.135	0.050	3880.6	1.267	0.000
2732.8	1.366	0.002	3117.7	1.536	0.103	3502.5	1.140	0.045	3887.3	1.269	0.000
2739.6	1.367	0.002	3124.4	1.538	0.131	3509.3	1.145	0.039	3894.1	1.269	0.000
2746.4	1.368	0.002	3131.2	1.539	0.145	3516.0	1.150	0.035	3900.8	1.269	0.000
2753.1	1.369	0.002	3137.9	1.538	0.160	3522.8	1.155	0.029	3907.6	1.270	0.000
2759.9	1.369	0.002	3144.7	1.536	0.175	3529.5	1.160	0.024	3914.3	1.271	0.000
2766.6	1.371	0.002	3151.4	1.533	0.190	3536.3	1.165	0.022	3921.1	1.271	0.000
2773.4	1.372	0.001	3158.2	1.528	0.204	3543.0	1.170	0.019	3927.8	1.272	0.000
2780.1	1.373	0.001	3164.9	1.522	0.219	3549.8	1.174	0.019	3934.6	1.273	0.000
2786.9	1.374	0.001	3171.7	1.515	0.233	3556.5	1.179	0.014	3941.3	1.273	0.000
2793.6	1.376	0.001	3178.4	1.507	0.247	3563.3	1.183	0.012	3948.1	1.274	0.000
2800.4	1.377	0.002	3185.2	1.498	0.259	3570.0	1.187	0.009	3954.8	1.274	0.000
2807.1	1.379	0.002	3191.9	1.488	0.272	3576.8	1.191	0.008	3961.6	1.275	0.000
2813.9	1.379	0.002	3191.9	1.476	0.272	3583.5	1.195	0.006	3968.3	1.275	0.000
2820.6	1.381	0.002	3205.4	1.464	0.295	3590.3	1.199	0.005	3975.1	1.276	0.000
2827.4	1.382	0.003	3212.2	1.452	0.303	3597.0	1.203	0.003	3981.8	1.276	0.000
2834.1	1.382	0.003	3212.2	1.438	0.303	3603.8	1.205	0.004	3988.6	1.277	0.000
2840.9	1.385	0.003	3225.7	1.424	0.313	3610.5	1.209	0.004	3995.3	1.278	0.000
2847.6	1.386	0.003	3232.4	1.409	0.322	3617.3	1.212	0.002	3993.3	1.210	0.000
2854.4	1.388	0.003	3232.4	1.393	0.329	3624.0	1.212	0.002			
2861.1	1.390	0.003	3239.2	1.376	0.330	3630.8	1.219	0.002			
	1.390	0.003	3252.7	1.359	0.346	3637.5	1.221	0.003			
2867.9	1.392	0.003	3434.1	1.559	0.540	3037.3	1.221	0.003	L		

TABLE 15F H₂O:OCS = 2:1 AT 140 K

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<u> </u>	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.013	0.013	0.013	0.014	0.014	0.014	0.01	0.014	0.014	0.013	0.013	0.013	0.012	0.010	0.010	0.010	0.00	0.00	900	0.00	0.00		0.08	0.00	000	0.00		0.00	0.00	98.5	0.005	0.005	0.00	0.005	0.0 0.00 0.00	0.0
=	1.305	1.306	1.308	1.309	308	1.309	1.310	1.311	1.311	1.311	1.312	1.312	1.313	1.313	1.314	1 316	1.316	1.316	1.317	1.318	1.318	1.320	1.320	1.321	1.322	1.323	1.325	1.325	1.326	1.327	1.328	1.329	1.330	1.330	1.331	1.332	1.334	1.334	1.334	1.336	1.337	1.33/	1.338	1.339	1.340
v (cm ⁻¹ )	2167.7	2169.6	2173.4	2175.4	21//3	2181.2	2183.1	2187.0	2188.9	2190.8	2192.7	2196.6	2198.5	2206.2	2213.0	2276.5	2233.2	2240.0	2246.8	2253.5	2200.3	2273.8	2280.5	2287.3	2294.0	2307.5	2314.3	2321.0	2334.5	2341.3	2348.0	2361.5	2368.3	2381.8	2388.5	2395.3	2408.8	2415.5	2422.3	2435.8	2442.5	2449.3	2462.8	2469.5 2476.3	2483.0
<u> </u>	0.365	0.274	0.147	0.119	0.09	0.074	20.064	0.036	0.042	0.036	0.032	0.026	0.025	0.022	0.021	0.010	0.015	0.014	0.014	0.013	0.01	0.010	0.010	0.011	0.0	0.011	0.00	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.012	0.012
=	0.952	0.957	1.016	1.049	2/0/2	1.114	1.129	1.153	1.164	1.175	1.1. 26.1.	1.201	1.208	1.214	1.219	1 230	1.235	1.239	1.243	1.247	127.1	1.258	1.260	45,5	1.200	1.271	1.273	1.275	1.279	1.281	1.283	1.286	1.287	1.290	1.291	1.292	1.295	1.296	1.297	1.299	1.300	1.301	1.303	1.30 20.1	1.304
v (cm ⁻¹ )	2053.9	2055.8	2059.6	2061.6	2063.5	2067.4	2069.3	2073.1	2075.1	2077.0	20/8.9	2082.8	2084.7	2086.6	2088.6	2000.3	2094.4	2096.3	2098.2	2100.1	2107.1	2105.9	2107.9	2109.8	2111.7	2115.6	2117.5	2119.4	2123.3	2125.2	2127.2	2131.0	2132.9	2136.8	2138.7	2140.7	2144.5	2146.4	2148.4	2152.2	2154.2	2156.1	2159.9	2161.9 2163.8	2165.7
	0.003	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.00	9 5	3 5	0.00	900.0	0.007	0.007	0.00	0.017	0.021	0.019	0.017	0.012	0.012	0.012	0.016	0.019	0.022	0.029	0.036	0.053	0.062	0.072	0.094	0.109	0.134	0.276	0.515	0.813	0.829	0.707	0.466
=	1.378					1.386	1.388	1.391	1.392	1.394	1.396	1.400	1.403	1.404	1.406	1.411	1.414	1.417	1.420	1.423	1.42/	1.434	1.433	1.432	1.433	1.444	1.451	1.458	1.474	1.482	1.490	1.512	1.524	1.548	1.562	1.578	1.620	1.654	1.700	1.847	1.892	1.739	1.242	1.096	896.0
v (cm ⁻¹ )	1940.0	1942.0	1945.8	1947.8	1949.7	1953.6	1955.5	1959.3	1961.3	1963.2	1965.1	1969.0	1970.9	1972.8	1974.8	1978.6	1980.6	1982.5	1984.4	1986.3	1988.3	1992.1	1994.1	1996.0	1999.9	2001.8	2003.7	2005.6	2009.5	2011.4	2013.3	2017.2	2019.1	2023.0	2024.9	2020.8	2030.7	2032.6	2034.6	2038.4	2040.4	2042.3 2044.2	2046.1	2048.1 2050.0	2051.9
-  -	+-	0.046	8 4 4	0.042	0.040	0.033	0.031	0.024	0.022	0.019	0.017	0.013	0.012	0.007	0.010	0000	0.007	0.007	0.007	0.005	0.000	200	0.004	4 5 5	2000	0.002	0.002	400.0	0.005	0.004	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.001	0.001	0.003	0.003	0.003	0.001	0.003	0.001
  -	1.326	1.325											1.323	1.326	1.327	1 320	1.332	1.334	1.334	1.336	1.338	1.341	1.343	1.344	1.346	1.349	1.351	1.354	1.356	1.355	1.357	1.361	1.362	1.363	1.364	2 2 2 3 3 4 3	1.366	1.368	1.369	1.370	1.372	1.372	1.373	1.375	1.377
v (cm ⁻¹ )		1680.6	1692.2	1698.0	1703.7	1715.3	1721.1	1732.7	1738.5	1744.3	1750.0	1761.6	1767.4	1773.2	1779.0	1790.6	1796.3	1802.1	1807.9	1813.7	1819.5	1831.1	1836.8	1842.6	1848.4	1860.0	1865.8	18/1.6	1883.1	1888.9	1894.7	1903.4	1905.3	1909.2	1911.1	1913.0	1916.9	1918.8	1920.8	1924.6	1926.5	1928.5	1932.3	1934.3 1936.2	1938.1
<u>_</u>	0.016	0.016	0.010	0.020	0.020	0.020	0.019	0.019	0.021	0.023	0.023	0.023	0.025	0.025	0.021	0.023	0.027	0.026	0.028	0.024	0.028	0.030	0.030	0.032	0.026	0.033	0.033	0.035	0.033	0.036	0.036	0.038	0.036	0.030	9.0	0.043	0.043	0.04	0.037	0.046	0.047	0.049	0.051	0.050	0.048
-	1 344	1.344	1.346	1.347	1.346	1.346	1.347	1.348	1.348	1.349	1.348	1.349	1.350	1.349	1.350	1.250	1.348	1.351	1.351	1.349	1.351	1.331	1.349	1.350	1.351	1.351	1.351	1.351	1.352	1.352	1.349	1.352	1.351	1.350	1.349	1.348	1.346	1.346	1.343	1.343	1.339	1.340	1.332	1.336	1.329
v (cm ⁻¹ )	1333.4	1339.2	1350.8	1356.5	1362.3	1373.9	1379.7	1391.3	1397.0	1402.8	1408.6	1420.2	1426.0	1431.8	1437.6	1449.5	1454.9	1460.7	1466.5	1472.3	14/8.1	1489.6	1495.4	1501.2	1517.8	1518.6	1524.4	1530.1	1541.7	1547.5	1553.3	1564.9	1570.7	1582.2	1588.0	1593.8	1605.4	1611.2	1616.9	1628.5	1634.3	1640.1	1651.7	1657.5 1663.2	1669.0
	900	90.0	0.00	0.002	0.002	0.005	0.008	0.007	0.002	0.002	0.002	0.002	0.002	0.002	0.002	2000	0.002	0.002	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.007	0.00	0.007	0.007	0.010	0.010	0.010	0.009	0.012	0.014	0.014	0.014	0.016
=	1.236	1.241	1.254	1.259	2,04	1.273	1.272	1.278	1.283	1.286	1.288	1.293	1.295	1.297	1.298	302	1.302	1.306	1.307	1.309	1.310	1314	1.315	1.317	1.318	1.321	1.323	1.324	1.326	1.327	1.328	1.331	1.331	1 334	1.335	1.336	1.337	1.338	1.339	1.340	1.341	1.341	1.342	1.343 1.343	1.343
v (cm ⁻¹ )	992.0	997.8	1009.3	1015.1	1020.9	1032.5	1038.3	1049.8	1055.6	1061.4	1067.2	1078.8	1084.6	1090.3	1096.1	1101.9	1113.5	1119.3	1125.1	1130.8	1136.6	1142.4	1154.0	1159.8	1165.6	1177.1	1182.9	1188.7	1200.3	1206.1	1211.9	1223.4	1229.2	1240.8	1246.6	1252.4	1263.9	1269.7	1275.5	1287.1	1292.9	1298.7	1310.2	1316.0 1321.8	1327.6
	0.336	0.337	0.334	0.331	0.331	0.328	0.329	0.322	0.322	0.323	0.315	0.312	0.312	0.308	0.305	2000	0.308	0.302	0.283	0.265	0.256	0.231	0.242	0.242	0.237	0.225	0.221	0.216	0.204	0.200	0.195	0.183	0.178	0.1.0	0.149	0.132	0.099	0.083	0.072	0.050	0.038	0.031	0.017	0.014	0.007
=	1.335	1.329	1.321	1.309	1.305	1.293	1.286	1.274	1.270	1.262	1.256	1.246	1.240	1.235	1.228	1 216	1.204	1.188	1.175	1.175	1.175	1.178	1.176	1.174	1.171	1.163	1.162	1.160	1.155	1.152	1.152	1.146	1.146	1.143	1.144	1.140	1.146	1.152	1.157	1.173	1.180	1.189	1.205	1.214	1.229
v (cm ⁻¹ )	816.4	818.4	822.2	824.2	826.1	829.9	831.9	835.7	837.7	839.6	841.5	845.4	847.3	849.2	851.2	022.1	856.9	858.9	8.098	862.7	%04./	868.5	870.4	872.4	8/4.3	878.2	880.1	882.0	885.9	887.8	889.7	893.6	895.5	899.5 899.4	905.2	911.0	922.5	928.3	934.1	939.9	951.5	957.2 963.0	968.8	974.6 980.4	986.2
<u></u>	0000	0.026	0.00	0.005	0.010	0.010	0.005	0.010	0.014	0.019	0.023	0.027	0.031	0.031	0.035	0.030	0.046	0.049	0.053	0.060	0.067	0.072	0.089	0.099	0.110	0.131	0.141	0.151	0.101	0.189	0.200	0.229	0.243	0.769	0.281	0.293	0.310	0.319	0.324	0.336	0.336	0.337	0.338	0.339	0.335
=	2																																1.530											1.352 1.347	
v (cm ⁻¹ )	504.9	510.7	522.3	528.1	533.8	545.4	551.2	562.8	568.6	574.4	580.1	591.7	597.5	603.3	609.1	6206	626.4	632.2	638.0	643.8	0.649.0	661.2	6.999	672.7	6/8.3	690.1	695.9	701.7	713.2	719.0	724.8	736.4	742.2	753.7	759.5	765.3	776.9	782.7	788.5	801.0	802.9	804.9 6.806.8	808.7	810.6 812.6	814.5

TABLE 15F—Continued

<del></del>			<del></del>								
ν (cm ⁻¹ )	n	<u>k</u>	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k
2489.8	1.341	0.004	2874.6	1.399	0.005	3259.5	1.298	0.365	3644.3	1.224	0.001
2496.6	1.341	0.004	2881.4	1.401	0.005	3266.2	1.277	0.361	3651.0	1.226	0.000
2503.3	1.342 1.343	0.004 0.004	2888.1 2894.9	1.403 1.406	0.005 0.006	3273.0 3279.7	1.258 1.239	0.355 0.347	3657.8	1.227	0.000
2510.1 2516.8	1.343	0.004	2901.6	1.400	0.000	3219.1	1.239	0.347	3664.5 3671.3	1.228 1.231	0.000
2523.6	1.344	0.004	2908.4	1.407	0.010	3293.2	1.208	0.337	3678.0	1.234	0.000
2530.3	1.345	0.004	2915.1	1.408	0.009	3300.0	1.194	0.314	3684.8	1.235	0.000
2537.1	1.345	0.004	2921.9	1.411	0.007	3306.7	1.183	0.300	3691.5	1.238	0.000
2543.8	1.346	0.004	2928.6	1.414	0.007	3313.5	1.174	0.288	3698.3	1.239	0.000
2550.6	1.346	0.003	2935.4	1.417	0.007	3320.2	1.166	0.275	3705.0	1.241	0.000
2557.3	1.347	0.003	2942.1	1.420	0.008	3327.0	1.160	0.264	3711.8	1.242	0.000
2564.1	1.348	0.003	2948.9	1.423	0.009	3333.7	1.155	0.251	3718.5	1.244	0.000
2570.8	1.349	0.003	2955.6	1.426	0.010	3340.5	1.151	0.242	3725.3	1.245	0.000
2577.6	1.349	0.003	2962.4	1.430	0.011	3347.2	1.147	0.232	3732.0	1.245	0.000
2584.3	1.350	0.003	2969.1	1.434	0.013	3354.0	1.143	0.223	3738.8	1.248	0.000
2591.1	1.351	0.003	2975.9	1.437	0.013	3360.7	1.140	0.214	3745.5	1.249	0.000
2597.8	1.351	0.003	2982.6	1.441	0.015	3367.5	1.137	0.206	3752.3	1.250	0.000
2604.6	1.352	0.003	2989.4	1.445	0.016	3374.2	1.131	0.197	3759.1	1.252	0.000
2611.3	1.353	0.003	2996.1	1.449	0.019	3381.0	1.128	0.189	3765.8	1.253	0.000
2618.1	1.353	0.002	3002.9	1.453	0.020	3387.7	1.127	0.181	3772.6	1.254	0.000
2624.8	1.354	0.002	3009.7	1.457	0.022	3394.5	1.123	0.172	3779.3	1.255	0.000
2631.6	1.355	0.002	3016.4	1.462	0.024	3401.2	1.119	0.162	3786.1	1.256	0.000
2638.3	1.356	0.002	3023.2	1.467	0.027	3408.0	1.117	0.152	3792.8	1.257	0.000
2645.1	1.357	0.002	3029.9	1.473	0.029	3414.7	1.116	0.142	3799.6	1.258	0.000
2651.8	1.358	0.002	3036.7	1.478	0.033	3421.5	1.115	0.133	3806.3	1.258	0.000
2658.6	1.359	0.002	3043.4	1.484	0.037	3428.2	1.114	0.123	3813.1	1.260	0.000
2665.3	1.359	0.002	3050.2	1.490 1.497	0.041	3435.0	1.114	0.112	3819.8	1.261	0.000
2672.1 2678.8	1.360 1.361	0.002 0.002	3056.9 3063.7	1.504	0.046 0.053	3441.7 3448.5	1.114 1.116	0.103 0.093	3826.6 3833.3	1.262 1.262	0.000
2685.6	1.362	0.002	3070.4	1.510	0.060	3455.2	1.118	0.093	3840.1	1.264	0.000
2692.3	1.363	0.002	3077.2	1.517	0.068	3462.0	1.122	0.032	3846.8	1.264	0.000
2699.1	1.363	0.002	3083.9	1.524	0.077	3468.7	1.126	0.066	3853.6	1.264	0.000
2705.8	1.364	0.002	3090.7	1.530	0.088	3475.5	1.130	0.059	3860.3	1.266	0.000
2712.6	1.365	0.002	3097.4	1.535	0.100	3482.2	1.135	0.052	3867.1	1.267	0.000
2719.3	1.366	0.002	3104.2	1.540	0.112	3489.0	1.140	0.045	3873.8	1.268	0.000
2726.1	1.367	0.002	3110.9	1.543	0.127	3495.7	1.144	0.039	3880.6	1.268	0.000
2732.8	1.368	0.001	3117.7	1.545	0.142	3502.5	1.149	0.035	3887.3	1.269	0.000
2739.6	1.369	0.002	3124.4	1.546	0.157	3509.3	1.155	0.031	3894.1	1.269	0.000
2746.4	1.371	0.002	3131.2	1.545	0.173	3516.0	1.159	0.027	3900.8	1.270	0.000
2753.1	1.372	0.001	3137.9	1.542	0.189	3522.8	1.163	0.023	3907.6	1.271	0.000
2759.9	1.372	0.002	3144.7	1.538	0.204	3529.5	1.168	0.019	3914.3	1.271	0.000
2766.6	1.374	0.001	3151.4	1.533	0.221	3536.3	1.173	0.017	3921.1	1.272	0.000
2773.4	1.375	0.002	3158.2	1.526	0.235	3543.0	1.177	0.015	3927.8	1.273	0.000
2780.1	1.376	0.001	3164.9	1.518	0.250	3549.8	1.182	0.012	3934.6	1.273	0.000
2786.9	1.378	0.001	3171.7	1.508	0.265	3556.5	1.185	0.011	3941.3	1.274	0.000
2793.6	1.378	0.002	3178.4	1.498	0.278	3563.3	1.189	0.009	3948.1	1.274	0.000
2800.4	1.381	0.002	3185.2	1.487	0.291	3570.0	1.193	0.007	3954.8	1.275	0.000
2807.1	1.382	0.003	3191.9	1.475	0.302	3576.8	1.196	0.007	3961.6	1.275	0.000
2813.9	1.383	0.003	3198.7	1.461	0.314	3583.5	1.199	0.005	3968.3	1.276	0.000
2820.6	1.385	0.003	3205.4	1.448	0.325	3590.3	1.203	0.004	3975.1	1.276	0.000
2827.4	1.386	0.003	3212.2	1.432	0.334	3597.0	1.206	0.003	3981.8	1.277	0.000
2834.1	1.387	0.003	3218.9	1.416	0.344	3603.8	1.209	0.002	3988.6	1.278	0.000
2840.9	1.389	0.003	3225.7	1.398	0.353	3610.5	1.212	0.000	3995.3	1.278	0.000
2847.6	1.392	0.003	3232.4	1.380	0.359	3617.3	1.215	0.000			
2854.4	1.393	0.003	3239.2	1.359	0.364	3624.0	1.218 1.221	0.000			
2861.1	1.395	0.004	3245.9	1.339	0.366	3630.8		0.000			
2867.9	1.397	0.004	3252.7	1.318	0.367	3637.5	1.223	0.001			

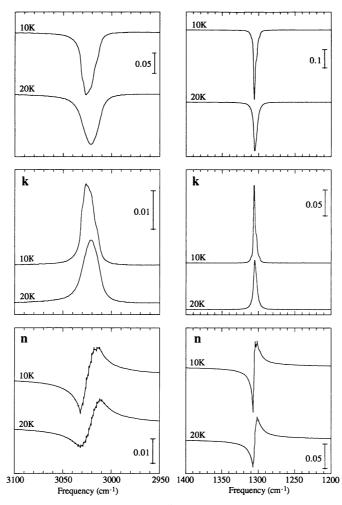


Fig. 16.—The 3100 to 2950 cm⁻¹ and 1400 to 1200 cm⁻¹ transmission spectra and optical constants (n and k) of an N₂:CH₄ = 20:1 ice mixture at temperatures of 10 and 20 K. The original ice was deposited at 10 K.

TABLE 16A N₂:CH₄ = 20:1 AT 10 K

k		
С	121 121 121 121 122 123 123 123 123 123	
v (cm ⁻¹ )	3060.8 3061.7 3061.7 3061.7 3061.7 3062.7 3062.7 3062.6 3063.6 3064.6 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 3077.2 30	
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		C.2482
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п	25000000000000000000000000000000000000	1.220
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ᆇ	64354	0.036
u	1224	1.263
v (cm ⁻¹ )	1248.0 1250.9 1250.9 1250.9 1250.9 1250.9 1250.9 1250.9 1250.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 1260.9 12	1303.0
ĸ		0000
r c		1.224
v (cm ⁻¹ )	1018. 1037.8 1037.8 1037.8 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119	1246.1 1247.1

TABLE 16B  $N_2$ :CH₄ = 20:1 AT 20 K

11-																															
بد	00000	0000	0000	0000	0000	0000	0000	0.00	0.000	0.000	0.000	0.000	0.000	0000	0.000	0.000	0.000	0.000	0000	0.000	0000	0.00	0.000	0.000	0000	0.000	0.000	0.00	0.00	0.000	
=	1.217 1.217 1.217 1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.218	1.218	1.218		1.218 1.218	1.218			1.218 1.218	1.218					1.219	1.219	1.219	1.219	1.220	1.220	1.220	1.220	1.220	
v (cm ⁻¹ )	3060.8 3061.7 3062.7 3063.7	3064.6 3065.6 3066.6	3067.5	3069.4 3070.4	3072.3	3073.3	3075.2	3077.2	3078.1	3080.1	3082.0	3083.0 3083.9	3084.9	3086.8	3088.7	3089.7 3090.7	3091.6 3092.6	3093.6	3095.5	3097.4	3098.4 3099.3	3119.1 3138.4	3157.7	3196.3	3215.6 3234.9	3254.1	32/3.4 3292.7	3312.0	3350.6	3389.2	
<u>×</u>	0.002 0.003 0.003	0.005	0.008	0.011	0.013	0.015	0.016	0.017	0.017	0.015	0.014	0.013	0.011	0.009	0.003	0.006	0.00 4.00 4.00 4.00	0.003	0.003	0.002	0.002	0.002	0.002	100.0	0.00	0.001	0.00	0.00	0.00	000.0	0.000
-	1.228	1.230	1.230	1.230	1.227	1.226	1.223	1.221	1.219	1.216	1.213	1.213	1.211	1.211	1.211	1.212	1.212	1.213	1.213	1.214	1.214	1.214	1.215	1.215	1.215	1.216	1.216	1.216	1.216	1.216	1.216
v (cm ⁻¹ )	3004.8 3005.8 3006.8 3006.7	3008.7 3009.7 3010.6	3011.6 3012.5	3013.5	3015.4	3017.4	3019.3	3020.3	3022.2	3024.1	3026.0	3027.0	3028.9	3030.9	3032.8	3033.8 3034.7	3035.7	3037.6	3039.6	3041.5	3042.4 3043.4	3044.4	3046.3	3048.2	3049.2 3050.2	3051.1	3053.1 3053.1	3054.0 3055.0	3055.9	3057.9	3059.8 3059.8
4	00000	0000	0.000	0000	0000	000	0000	0000	0000	0000	0.000	0000	0.000	0000	0.000	0000	0000	0.000	0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.00	0.002
-	1	1.222				1.222	1.222	1.222	1.222	1.222	1.222	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.224	1.224	1.224	1.224	1.225	1.225	1.225	1.225	1.226			1.22/
v (cm ⁻¹ )	2911.8 2931.0 2950.8 2951.8	2952.7 2953.7 2954.7	2955.6 2956.6	2957.6 2958.5	2959.5	2961.4 2962.4	2963.4	2965.3	2966.3 2967.2	2968.2	2970.1	2971.1 2972.0	2973.0	2974.9	2976.9	2977.8 2978.8	2979.8 2980.7	2981.7	2983.6	2985.5	2986.5 2987.5	2988.4 2989.4	2990.4	2992.3	2993.3 2994.2	2995.2	2996.1 2997.1	2998.1 2999.0	3000.0	3001.9	3003.9
<u> </u>	000000	0.000	0.000	900	0000	000	0.00	0.000	0000	0.00	0.000	0000	0.00	0000	0.000	0000	0000	0.000	0000	0000	0.000	0000	0.000	000	0000	0.000	0.000	0000	0.00	000	0.000
=	1.220									1.220				1.220			1.220		1.220		1.220							1.221			1.221
v (cm ⁻¹ )	1792.0 1811.3 1830.6 1849.9	1869.2 1888.4	1927.0 1946.3	1965.6 1984.9	2004.2	2042.8 2062.1	2081.3	2119.9	2139.2	2177.8	2216.4	2235.7 2254.9	2274.2 2293.5	2312.8	2351.4	2370.7 2390.0	2409.3 2428.6	2447.8	2486.4	2525.0	2544.3 2563.6	2582.9 2602.2	2621.4	2660.0	26/9.3 2698.6	2718.9	2757.4	2776.7	2815.3	2853.9	2892.5
×	2222	0.000	0000	308					0000			_	000	0000			000	000		200		0000	-		-	0000		000			
۵	1216 1216 1216 1216	1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.218	1.217	1.218			1.218 1.218	1.218			1.218	1.219 1.219	1.219	1.219	1.219	1.219	1.220	1.220	1.220	1.220	1.220
v (cm ⁻¹ )	1361.8 1362.8 1363.8 1364.7	1365.7 1366.7 1367.6	1368.6	1370.5	1373.4	13/4.4	1376.3	1378.2	1379.2 1380.2	1381.1	1383.1	1385.0	1386.0 1386.9	1387.9	1389.8	1390.8	1392.7 1393.7	1394.6	1396.6	1398.5	1419.2	1438.5 1457.8	1477.1	1515.7	1554.3	1573.5	1618.4	1657.7	1676.3	1714.8	1753.4 1772.7
×	0.095 0.087 0.056 0.032	0.021	0.009	0.00	0.003	0.002	0.002	0.001	0.00	0.000	0.000	0.000	0000	0.000	0000	0.000	0000	0.000	0.00	0000	0.000	0.00	0.00	0.00	0.00	00.00	000	0000	0.000	0000	0.000
r c	1.210 1.185 1.171 1.170	1.184	1.190	1.198	1.201	1.204	1.205	1.207	1.207	1.209	1.210	1.211	1.211	1.212	1.212	1.212	1.213	1.213	1.214	1.214	1.214	1.215	1.215	1.215	1.215	1.215	1.215	1.216	1.216	1.216	1.216
v (cm ⁻¹ )	1304.9 1305.9 1306.9 1307.8	1308.8 1309.8 1310.7	1311.7	1314.6	1316.5	1318.4	1319.4	1321.3	1322.3 1323.3	1324.2	1326.2	1328.1	1329.1 1330.0	1331.0	1332.9	1334.8	1335.8 1336.8	1337.7	1339.7	1341.6	1343.5	1344.5 1345.4	1346.4	1348.3	1350.3	1351.2	1353.2	1354.1	1356.1	1358.0	1359.9 1360.9
<u> </u>	0.000	0000	0000	800	888	00.0	0000	0.00	0000	0000	0.00	000	900	0.000	90.0	0.00	000	0.00	0.000	0000	000	0.00	0.002	0.002	0.003	90.0	0.008	0.010	0.018	0.037	0.067
F	1224 1224 1224 1224	1.224	1.225	1.225	1.225	1.225	1.225	1.226	1.226 1.226	1.226 1.226	1.227	1.227	1.227	1.228	1.228	1.229	1.229	1.230	1.231	1.232	1.233	1.234	1.236	1.238	1.242	1.243	1.249	1.254	1.259	1.263	1.254
(cm ⁻¹ )	1248.0 1249.0 1250.0 1250.9	1251.9 1252.9 1253.8	1254.8	1250.7	1259.6	1260.6	1262.5 1263.5	1264.4	1265.4 1266.4	1267.3 1268.3	1269.3	1271.2	1272.1	1274.1	1276.0	1277.9	1278.9 1279.9	1280.8 1281.8	1282.8	1284.7	1286.6	1287.6 1288.5	1289.5	1291.4	1293.4	1294.3	1296.3	1298.2	1299.2	1301.1	1303.0
>						0	22	8.8	88	88	88	388	38	88	888	38	38	0.000	88	0.000	38	38	88	88	38	88	288	3 8	22	888	0000
11	0.000	0000	0.000		9000	38	0.000	0.000	0.00	0.000	0.0	0.0	0.0	0.000	0.000	0.0	0.000	0.0	0.0	300	300	3 3	0.0	0.0	0.0	0.0	0.0	9.00	0.000	0.0	
×	1.221 0.000 1.221 0.000 1.221 0.000 1.221 0.000		1.222 0.000				1.222 0.00 1.223 0.00			1.222 0.0 1.222 0.0		1.223 0.0			1.223 0.0	n m 1	~ ~		~ ~				~ ~		- ~	1.224 0.0			1.224 0.00		1.224 0.0
k	1.221 1.221 1.221 1.221	1.221	1.222	1.222	1.222	1.222	1.222	1.222	1.222	1.222	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.224	1.224	1.224	1.224	1.224	l l

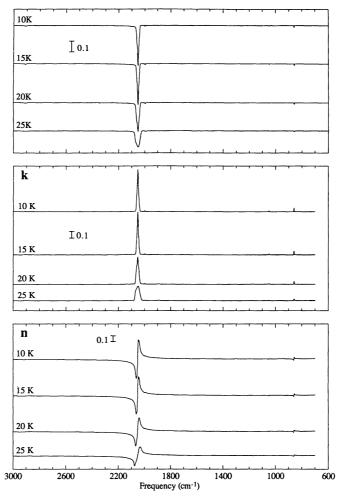


FIG. 17.—The 3000 to  $600 \text{ cm}^{-1}$  transmission spectra and optical constants (n and k) of an N₂:OCS = 20:1 ice mixture at temperatures of 10, 15, 20, and 25 K. The original ice was deposited at 10 K.

TABLE 17A

																													_						
9000 0000	0.000	888	800	0.00	0.000	000	000	0.00	000	0.00	000	0.00	000	800	0.00	0.00	000	0.00	000	0.00	900	0.000	90.0	800	0.003	0.00	0.00	000	0.00	0.00	0.00	0000	0.000		
n 1.215 1.214	1.214	1.215	1215	1.215	1.215	1.215	1.215	1.216	1.215	1.215	1.216	1.215	1.216	1.216	1.216	1.216	1.216	1.216	1.217	1.216	1.217	1.217	1.218	1.218	1.219	1.215	1.215	1.215	1.216	1.216	1.216	1.217	1.216		
v (cm ⁻¹ ) 2578.0 2585.8	2593.5	2608.9 2616.6 2624.3	2632.1 2639.8	2647.5 2655.2	2662.9	2678.4	2686.1 2693.8	2701.5	2709.2	2724.6	2732.4	2747.8	2755.5	2770.9	2778.7	2794.1	2801.8	2817.2	2825.0	2840.4	2848.1	2863.5	2879.0	2886.7	2902.1	2909.8	2925.3	2933.0	2948.4	2956.1	2971.6	2979.3	2994.7		
k 0.002 0.002	0.002	0.002	0.002	0.002	0.000	0.00	0.00	0.000	000	0.00	0.00	0.000	0.00	0000	0.000	0.000	0000	0.000	0.00	0.000	0.00	0.000	0.000	0000	0.000	0.00	0.000	0000	0.00	0.00	0.000	0.00	0.00	0.000	0.000
n 1.194 1.195	1.195	1.195	1.196	1.197	1.199	1.201	1.201	1.203	1.204	1.205	1.206	1.207	1.207	1.208	1.208	1.209	1.209	1.210	1.210	1.211	1.211	1.211	1.212	1.212	1.212	1.212	1.213	1.213	1.213	1.214	1.214	1.214	1.214	1.214	1.214
v (cm ⁻¹ ) 2181.6 2183.6	2185.5	2189.4	2195.2 2195.2 2197.1	2199.0 2207.7	2215.4	2230.8	2238.6 2246.3	2254.0	2261.7	2277.1	2284.8	2300.3	2308.0	2323.4	2331.1	2346.6	2354.3	2369.7	2377.4	2392.9	2400.6 2408.3	2416.0	2423.7 2431.4	2439.2	2454.6	2462.3	2477.7	2485.5	2500.9	2508.6	2524.0	2531.8	2547.2	2554.9	2570.3
k 0.024 0.012	0.009	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.00	0.008	0.00	0.007	0.005	90.0	0.00	0.005	0.005	0.003	90.00	0.004	0.00 0.00 4.00 4.00	0.004	0.0	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
n 1.001 1.033	1.058	0.00	1.119	1.131	1.140	1.148	1.151	1.156	1.158	1.162	1.163	1.165	1.167	1.171	1.172	1.175	1.176	1.177	1.179	1.181	1.182	1.183	1.184	1.185	1.187	1.187	1.188	1.189	1.189	1.190	1.191	1.192	1.193	1.193	1.194
v (cm ⁻¹ ) 2069.8 2071.7	2073.6	2077.5 2079.4 2081.3	2083.3	2087.1 2089.1	2091.0	2094.8	2096.8	2100.6	2102.6	2106.4	2108.3	2112.2	2114.1	2118.0	2119.9	2123.8	2125.7	2129.6	2131.5	2135.4	2137.3	2141.1	2145.0	2146.9	2150.8	2152.7	2156.6	2158.5	2162.4	2164.3	2168.1	2170.1 2172.0	2173.9	21/5.9	2179.7
k 0.002 0.003	0.003	2009	0.002	0.004	0.003	0.00	0.00	0.0	20.0	0.007	0.011	0.015	0.010	0.003	20.00	0.005	0.005	0.007	9000	0.006	0.000	9000	0.007	0.012	0.049	0.089	0.230	0.263	0.532	0.641	0.502	0.375	0.254	0.095	0.049
n 1.252 1.254	1.254	1.255	1.258	1.260	1.263	1.265	1.266	1.270	1.272	1.278	1.279	1.273	1.272	1.280	1.284	1.291	1.295	1.302	1.308	1.320	1.32/	1.348	1.380	1.404 42.42	1.467	1.498	1.522	1.514	1.476	1.309	0.992	0.943	0.922	0.904	0.963
v (cm ⁻¹ ) 1957.9 1959.8	1961.7	1965.6 1967.5 1960.5	1971.4	1975.3 1977.2	1979.1	1983.0	1984.9 1986.8	1988.8	1990.7	1994.5	1996.5	2000.3	2002.3	2006.1	2008.0	2011.9	2013.8	2017.7	2019.6	2023.5	2025.4	2029.3	2033.1	2035.0	2038.9	2040.8	2044.7	2046.6 2048.6	2050.5	2052.4	2056.3	2058.2 2060.1	2062.1	2065.9	2067.8
k 0.002 0.002	0.002	0.00	0.002	0.002	0.002	0.000	0.002	0.002	0.002	0.002	000	0.00	00.0	0.003	0.00	0.003	0.00	0.00	0.003	0.003	0.00	0.003	0.003	0.003	0.00	0.003	0.002	0.00	0.003	0.00	0.003	0.003	0.003	0.003	0.003
n 1.230 1.229	1.230	1.231	1.230	1.230	1.231	1.231	1.233	1.233	1.233	1.233	1.235	1.235	1.236	1.238	1.239	1.241	1.239	1.240	1.241	1.242	1.242	1.243	1.243	1.243	1.244	1.245	1.246	1.247	1.247	1.248	1.248	1.249	1.250	1.251	1.252
v (cm ⁻¹ ) 1671.4 1679.2	1686.9	1710.0	1725.4	1740.9 1748.6	1756.3	1771.7	1779.5	1794.9	1802.6	1818.0	1825.8 1833.5	1841.2	1848.9	1864.3	1872.1	1887.5	1895.2	1903.9	1905.8	1909.7	1911.6	1915.5	1919.3	1921.2	1925.1	1927.0	1930.9	1932.8	1936.7	1938.6	1942.5	1944.4 1946.3	1948.2	1950.2	1954.0 1956.0
0.000 0.000	0.003	0.003	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002 0.002	0.000	0.00	0.002	0.000	0.002	0.00	0.002	000	0.000	0.000	0.002	0.00	0.002	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0000	0.002	0.002	0.002
n 1.224 1.226	1.225	1.225	1.226	1.227	1.226	1.226	1.226	1.225	1.226	1.225	1.225	1.226	1.226	1.227	1.226	1.226	1.226	1.225	1.226	1.227	1.227	1.227	1.227	1.228	1.227	1.228	1.228	1.227	1.227	1.228	1.228	1.227	1.229	1.229	1.230 1.230
v (cm ⁻¹ ) 1216.2 1223.9	1231.6	1254.8	1270.2	1285.6 1293.4	1301.1	1316.5	1324.2	1339.7	1347.4	1362.8	1370.5	1386.0	1393.7	1409.1	1416.8	1432.3	1440.0	1455.4	1463.1 1470.8	1478.5	1494.0	1501.7	1517.1	1524.8	1540.3	1548.0	1563.4	1571.1	1586.6	1594.3	1609.7	1617.4 1625.1	1632.9	1648.3	1656.0 1663.7
0.003 0.000	0.00	0.00	0.00	0.00 0.00 0.00	0.00	0.003	900	0.00	000	0.000	0.00	0.003	0.00	0.003	0.003	0.003	0.00	0.003	0.003	0.003	0.00	0.00	0.003	0.003	0.003	0.003	0.000	900	0.003	0.000	0.000	0.003	0.003	0.003	0.003
n 1.214 1.217	1.219	1.222	1.223	1.225	1.224	1.225	1.223	1.225	1.225	1.226	1.226 1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.225	1.225	1.224	1.228	1.230	1.224	1 225	1.225	1.224	1.223	1.224	1.227	1.225	1.226	1.226	1.225	1.224	1.225
v (cm ⁻¹ ) 865.1 867.1	869.0 870.9	874.8 876.7	878.6 880.6	882.5 884.4	886.4	890.2	892.1 894.1	896.0	897.9	907.6	915.3 923.0	930.7	938.4 946.2	953.9	961.6 969.3	977.0	984.7	1000.2	1007.9	1023.3	1038.7	1046.5	1061.9	1069.6	1085.0	1092.8	1108.2	1115.9	1131.3	1139.0	1154.5	1162.2 1169.9	1177.6	1193.1	1200.8 1208.5
0.004 0.004	0.00 4.00 4.00 5.00 6.00	0000	0.00	0.00 2000 4	0.000	0.00	0.00	0.000	0.00	0.004	0.00	0.000	0000	0.000	0.0 0.0 4.00 4.00	0.000		0.004	0000	0.000	0.000	0.000	0.000	000	0.000	0.000	0.000	0000	0.000	0.00	0.000	0000	0.004	0.058	0.020
امادا	27.8	2 62 8	28	828	227	256	222	226	225	722.	722. 726.	.225	227	722	22. 24.	.225	077	722	.227 .226	.225	225	226	.227	727.	228	228	228	230	.231	.232	.231	232	245	222	1.198
n 1.230 1.225	22.2	122	22	22	= =	: :: :		<b></b> .		-				-				. —					-						-						

<b>×</b>	0.000	000	0000	0.000	000	0.000	900		0.00	0.000	0.000	0.00	0000	30.0	38	38	38	0000	0000	000	0000	0000	0000	0.00	0.000	0.000	0.000	0.000	000	900	38	0000	0000	0.00	0.000	0.00	0.003	90.0		0000	0.000	0.000	0.000	98		0.00	0.00			
c c	1.214	1.215	1.214	1.215	1.215	1.215	1.216	1 215	1.215	1.215	1.216	1.215	1.215	1.215	1.215	1215	1 216	1.216	1216	1.216	1.216	1.216	1.216	1.217	1.216	1.216	1.216	1.217	1.216	1.216	13.1	1.216	1.217	1.217	1.217	1.218	1.218	1.214	1 215	1.215	1.216	1.216	1.216	1.216	1 217	1.216	1.217			
v (cm ⁻¹ )	2578.0	2593.5	2608.9	2616.6	2632.1	2639.8	2647.5	2022.7	2670.6	2678.4	2686.1	2693.8	2701.5	2.60/2	27.16.9	2732 4	2740.1	2747.8	2755 5	2763.2	2770.9	2778.7	2786.4	2794.1	2801.8	2809.5	2817.2	2825.0	2832.7	2840.4	2046.1	2863.5	2871.2	2879.0	2886.7	2894.4	2902.1	8.6067	2025 3	2933.0	2940.7	2948.4	2956.1	2963.8	29793	2987.0	2994.7			
×	0.003	0.002	0.003	0.002	0.002	0.002	0.002	0.00	0.002	0.001	0.001	0.001	0.001	0.001	0.00	300	5	0000	0000	0000	0000	0000	0000	0.00	0.000	0.000	0.000	0.000	0.00	0.000	3 6	88.0	0000	0.00	0.00	000	0000	90.0		0.000	0.000	0.000	0.00	98		0.000	0.000	000	0.000	
=	1.194	1.195	1.195	1.196	1.197	1.197	1.197	1.13	1.200	1.201	1.201	1.202	1.203	402.1	202.1	200	200	1.206	120	1 207	1.207	1 208	1.208	1.208	1.209	1.209	1.209	1.210	1.210	1.211	117.1	1211	1.211	1.212	1.212	1.212	1.212	1.212	1213	1.213	1.213	1.213	1.214	1.213	1 2 1 4	1.214	1.214	1.214	1.214	
v (cm ⁻¹ )	2181.6	2185.5	2189.4	2191.3	2195.2	2197.1	2199.0	2215.4	2223.1	2230.8	2238.6	2246.3	2254.0	2261.7	2269.4	2000	22026	2300.3	2308.0	23157	2323.4	2331.1	2338.9	2346.6	2354.3	2362.0	2369.7	2377.4	2385.2	2392.9	2400.0	24160	2423.7	2431.4	2439.2	2446.9	2454.6	2462.3	24/0.0	2485.5	2493.2	2500.9	2508.6	2516.3	2524.0	2539.5	2547.2	2554.9	2570.3	
*	0.024	0.00	0.00	0.007	0.00	0.00	0.007	36	0.00	0.007	0.007	0.007	0.00	0.00	8000	900	886	0.00	000	900	0000	0000	0.005	0.005	0.005	0.005	0.005	0.005	90.0	900	3 5	5 5	000	0.0	0.004	0.0	0.00	0.003		0.003	0.003	0.003	0.003	0.003		0.003	0.003	0.003	0.003	
c	1.003	1.059	1.091	1.102	1.111	1.125	1.132	1.150	1.145	1.149	1.152	1.155	1.157	601.1	1.161	1.163	1165	1166	1.168	1 170	1.172	1.173	1.175	1.176	1.177	1.178	1.179	1.179	1.180	1.181	1.183	1.182	1.185	1.186	1.186	1.187	1.187	1.18/	1.100	1.190	1.190	1.191	1.191	1.192	1.192	1.193	1.193	1.194	1.194	١
v (cm ⁻¹ )	2069.8	2073.6	2077.5	2079.4	2083.3	2085.2	2087.1	2069.1	2092.9	2094.8	2096.8	2098.7	2100.6	2102.6	2104.5	2108.3	21103	2112.2	2114 1	21161	2118.0	2119.9	2121.9	2123.8	2125.7	2127.6	2129.6	2131.5	2133.4	2135.4	2130.3	2137.2	2143.1	2145.0	2146.9	2148.9	2150.8	2152.7	2156.6	2158.5	2160.4	2162.4	2164.3	2166.2	21701	2172.0	2173.9	2175.9	2177.8	
×	0.002	0.002	0.007	0.004	0.004	0.002	0.002	0.00	0.003	0.003	0.004	0.004	0.000	4000	0.003	2000	0.016	0.015	0.010	9000	0.005	0000	0.005	0.005	0.007	0.008	0.007	0.006	0.006	0.006	0000	90.0	0.00	0.007	0.012	0.024	0.051	0.091	0.147	0.261	0.350	0.527	0.641	0.614	0.493	0.295	0.254	0.173	0.095	
L L	1.252	1.254	1.256	1.257	1.257	1.259	1.261	1 263	1.26	1.266	1.267	1.268	1.270	7/7:1	1.272	1 270	1 277	1.273	1 272	1.276	1.280	1.284	1.288	1.292	1.295	1.299	1.302	1.306	1.312	1.320	1.327	1 348	1.362	1.380	1.404	1.433	1.466	1.496	1 510	1.508	1.534	1.477	1.309	1.118	0.990	0.94	0.925	0.907	0.929	
v (cm ⁻¹ )	1957.9	1961.7	1965.6	1967.5	1971.4	1973.3	1975.3	19791	1981.0	1983.0	1984.9	1986.8	1988.8	1990.7	1992.6	1996 5	1008 4	2000.3	2002	2004.2	2006.1	2008.0	2010.0	2011.9	2013.8	2015.8	2017.7	2019.6	2021.5	2023.5	2023.4	2020	2031.2	2033.1	2035.0	2037.0	2038.9	2040.8	2042.0	2046.6	2048.6	2050.5	2052.4	2054.3	2058.3	2060.1	2062.1	2064.0	2065.9 2067.8	
×	0.002	0.002	0.002	0.00	000	0.002	0.002	38	0000	0.00	0.002	0.000	0.002	000	0.002	0.00	3 6	3 8	3 8	30.0	200	0000	000	0.003	0.007	0.003	0.003	0.003	0.003	0.003	0.003	0.00	33.0	0.00	0.003	0.003	0.003	0.003	0.003	86	0.003	0.003	0.003	0.003	0.003	0.00	0.002	0.002	0.002	0.003
_ c	1.229	1.231	1.232	1.231	1 230	1.229	1.230	1.230	1.232	1.232	1.232	1.232	1.233	1.233	1.233	1.233	1.233	1 236	1 236	1 238	1 238	1 230	1.240	1.241	1.239	1.240	1.241	1.241	1.241	1.242	1.242	1 243	1 243	1 243	1.244	1.244	1.244	1.245	1.245	1 246	1.246	1.247	1.247	1.247	1.248	1 248	1.249	1.249	1.251	1.252
v (cm ⁻¹ )	1671.4	1686.9	1702.3	1710.0	1717.7	1733.2	1740.9	17563	1764.0	1771.7	1779.5	1787.2	1794.9	1802.6	1810.3	1016.0	1023.6	1841 2	1848 0	1856.6	1864.3	1872 1	1879.8	1887.5	1895.2	1901.9	1903.9	1905.8	1907.7	1909.7	1911.6	1015.5	1917 4	1919.3	1921.2	1923.2	1925.1	1927.0	1929.0	1932.8	1934.7	1936.7	1938.6	1940.5	1942.5	1946.3	1948.2	1950.2	1952.1 1954.0	1956.0
<b>×</b>	0.000	0.003	0.003	0.002	0.00	0.000	0.002	0.00	0.002	0.002	0.002	0.002	0.002	0.007	0.002	7000	7000	0.00	2000	0.00	0.00	0000	0.002	0.002	0.00	0.002	0.002	0.000	0.000	0.00	0.002	0.00	0.02	0000	0.002	0.002	0.000	0.002	0.002	0.007	0.002	0.002	0.000	0.002	0.002	0.00	0.002	0.002	0.002	0.000
	1.224	1.225	1.225	1.225	1 225	1.226	1.226	1 226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1 226	1 226	1 226	1 226	1 226	1 226	1 225	1 226	1.225	1.226	1.226	1.225	1.225	1.225	1.227	1.226	1 227	1 228	1.227	1.227	1.226	1.227	1.227	1.228	1 227	1.228	1.227	1.228	1.228	1.228	1 229	1.228	1.228	1.228	1.228
v (cm ⁻¹ )	1216.2	1231.6	1247.1	1254.8	1270.2	1277.9	1285.6	1301	1308.8	1316.5	1324.2	1331.9	1339.7	1347.4	1355.1	1302.0	1270.3	1386.0	1303.7	14014	14091	14168	1424.5	1432.3	1440.0	1447.7	1455.4	1463.1	1470.8	1478.5	1486.3	1501.7	1509.7	1517.1	1524.8	1532.6	1540.3	1548.0	1555.7	1571	1578.8	1586.6	1594.3	1602.0	1609.7	1625.1	1632.9	1640.6	1648.3 1656.0	1663.7
×	0.000	90.0	000	0.003	900	0.003	0.003	38	0000	0.003	0.000	0.003	000	0000	0.00	3 8	3 6	38	888	38	0.00	000	000	0000	0000	0.000	0.003	0.000	0.003	0.003	0.003	3 8	33.0	0.00	0.003	0.000	0.000	0.000	38		0.003	0.000	0.000	0.003	900	000	0.003	0.003	0.003	0.003
  -	1.213	1.220	1.221	1.223	1.221	1.224	1.223	1.22.1	1.224	1.224	1.223	1.223	1.223	1.224	1.225	1.224	1 226	1 225	1 226	1 225	1 225	1 225	1,225	1.225	1.224	1.226	1.225	1.227	1.226	1.226	1.225	1 220	1 220	1 222	1.223	1.225	1.224	1.225	1.223	1 225	1.225	1.226	1.225	1.227	1.225	1.225	1.225	1.226	1.225	1.225
v (cm ⁻¹ )	865.1	869.0	872.9	874.8	878.6	880.6	882.5	886.4	888.3	890.2	892.1	894.1	896.0	897.9	899.9	907.0	913.3	0307	038.4	946.2	953.9	9616	969.3	977.0	984.7	992.5	1000.2	1007.9	1015.6	1023.3	1031.0	1038.7	1054.2	1061.9	1069.6	1077.3	1085.0	1092.8	1100.5	1115 9	1123.6	1131.3	1139.0	1146.8	2.54.5	1169.9	1177.6	1185.3	1193.1 1200.8	1208.5
*	0.004	000	2000	0.000	2 2	0.000	0000	300	0.00	0.004	0.000	0.00	0.000	4000	0.000	300	3	20.0	0.00	20.0	0.00	0.00	0000	0.00	0.004	0.000	0.000	0.000	0.004	0.00	0000	300	20.00	90.0	0.000	0.000	0.004	0.000	000	3 5	0.00	0.000	0.004	0.00	4 6	000	0.00	0.024	0.058	0.003
L C	1.229	1.228	1.228	1.228	1 228	1.226	1.228	1 228	1.225	1.228	1.226	1.225	1.227	1.22.1	1.228	1.22.1	1 220	1 227	1 226	1 227	1.227	1 225	1.228	1.227	1.226	1.225	1.225	1.227	1.227	1.227	1.228	1 228	1 228	1 226	1.228	1.227	1.226	1.227	1.228	1 229	1.230	1.230	1.232	1.231	1.230	1.237	1.243	1.252	1.222	1.207
v (cm ⁻¹ )	703.1	710.8	718.5	722.4	730.1	734.0	737.8	745.5	749.4	753.3	757.1	761.0	764.8	/08./	77.6	700.4	787	788.0	70.00	7057	799.6	801.5	803.4	805.3	807.3	809.2	811.1	813.1	815.0	816.9	818.8	820.8	8246	826.6	828.5	830.4	832.3	834.3	836.2	840 1	842.0	843.9	845.9	847.8	249.7	853.6	855.5	857.4	859.4 861.3	863.2

## TABLE 17C $N_2$ :OCS = 20:1 AT 20 K

V(cm ² )   1	<b> </b>								_										_						_																												_
Mail	¥	2	300	0.000	88	88	0.000	0.00	000	98	38	38	3 5	38	38	36		3 6	88		0.000	0000	000	0000	0000	0.000	0.00	0.000	0.000	0.000	0.00	98	38	38	0000	0.00	0.00	0.00	98	0.02	0.0	0.001	000	38	300	300	0.000	0.00	3 5	0.00			
Name	l a	216	1.215	1.215	5171	1.215	1.215	1.215	1.215	1.216	2171	1.215	1.210	1 216	1 216	1 216	1 216	1.216	1 216	1 216	1.216	1.216	1216	1.216	1.216	1.216	1.216	1.217	1.216	1.216	1.216	1.217	1.21/	1 217	1.218	1.217	1.218	1.218	1.218	1.218	1.215	1.215	1.215	1 216	1 216	1.216	1.217	1.217	1.210	1.217			
Name   Column   Col	v (cm ⁻¹ )	0 0230	2585.8	2593.5	2001.7	2616.6	2624.3	2632.1	2639.8	2647.5	7.007	7.7007 7.7007	0.0102	2686.1	2603.9	2701.5	2709.2	2716 0	2724.6	2737.4	2740.1	2747.8	2755.5	2763.2	2770.9	2778.7	2786.4	2794.1	2801.8	2809.5	2817.2	2825.0	7832.7	2848.1	2855.8	2863.5	2871.2	2879.0	7886.7	2902 1	2909.8	2917.5	2925.3	2933.0	2940.7	2956.1	2963.8	2971.6	2979.5	2994.7			
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	¥		300	0.000	0.000	000	0.000	0.000	0.000	0.000	1000	35	35	36	36	300	2000	3 6	900		0.000	0.000	0000	0000	0000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	30.0		0.000	0.000	0.000	0.000	0000	200	0.000	0.000	0.000	90.0	300	0.000	0.000	0.000	0.00	0.000	0.000	0.000	
Name	c	18	1.18	1.197	1.19/	1.197	1.198	1.198	1.198	1.198	32.	32.1	1.202	1.203	202.1	1 205	202	300	202	202	1.208	1.208	200	1.209	1.209	1.209	1.210	1.210	1.210	1.210	1.210	1.210	1.2.1	1 212	1.212	1.212	1.212	1.212	1.212	1.213	1.212	1.213	1.214	1.214	1214	1.214	1.214	1.214	1.214	1.215	1.214	1.214	
Name			2183.6	2185.5	218/.4	2191.3	2193.2	2195.2	2197.1	2199.0	7707.7	7273.1	3330 8	2230.0	220.0	2254 0	2261.7	2260.7	727.1	2284.8	2292.6	2300.3	2308.0	2315.7	2323.4	2331.1	2338.9	2346.6	2354.3	2362.0	2369.7	2377.4	7307.0	2400.6	2408.3	2416.0	2423.7	2431.4	2439.2	24546	2462.3	2470.0	2477.7	2483.5	250030	2508.6	2516.3	2524.0	2331.8	2547.2	2554.9	2562.6 2570.3	
Mail   1277   1086   1087   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287   1287	<b>K</b>	2000	0.08	0.020	0.011	0.00	9000	0.007	0.00	0.00	900	35	35	38	3 8	3 5	300	35	0.60	0000	0.005	0.00	0.00	000	0.005	0.003	0.003	0.003	0.00	0.00	90.0	0.002	0.00		0.003	0.003	0.003	0.003	900	000	0.002	0.002	0.002	0.00	200	0.002	0.002	0.002	0.002	0.002	0.000	0.00	
Name	-	3000	1.010	1.040	200.1	1.098	1.109	1.118	1.126	1.132	1.138	1.146	1.140	1.147	1.156	1.158	1 161	1.163	1 2 2	1 165	1.167	1.168	1.170	1.171	1.173	1.174	1.176	1.177	1.178	1.179	1.180	1.180	1.162	1.103	1.185	1.185	1.186	1.186	1.186	1.18	1.189	1.190	1.190	1.191	1.171	1.192	1.193	1.193	1.193	1.193	1.194	1.195	
Name	v (cm ⁻¹ )	0 0500	2071.7	2073.6	20/2.6	2079.4	2081.3	2083.3	2085.2	2087.1	2003.1	0.1702	2007	2006.8	2008 7	2100.6	2102.6	2104.2	2106.4	2108.3	2110.3	2112.2	2114.1	2116.1	2118.0	2119.9	2121.9	2123.8	2125.7	2127.6	2129.6	2131.5	2133.4	2133.4	2139.2	2141.1	2143.1	2145.0	2146.9	2150.8	2152.7	2154.6	2156.6	2158.5	2162.4	2164.3	2166.2	2168.1	2170.1	2173.9	2175.9	2177.8	
National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Pr	×	500	0.003	0.003	0.00	0.002	0.003	0.002	9.0	9.00	9.0	\$ 6 5 6	20.00	700.0	5 6	200	2000	200	0.00	0.013	0.014	0.011	0.007	0.00	0.005	0.005	0.005	900.0	900.0	0.007	0.007	0.006	0.00	900	0.005	0.007	0.010	0.017	0.034	0.001	0.136	0.180	0.237	0.737	37.0	0.417	0.397	0.342	0.500	0.276	0.234	0.190	
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Marc		1361	1.252	1.252	1.252	1.255	1.255	1.256	1.257	1.258	1.238	1.207	107.1	1,207	265	1.267	1 260	1 271	1.273	1 272	1.270	1.268	1.269	1.273	1.277	1.280	1.284	1.287	1.290	1.293	1.297	1.302	1.308	1 323	1.333	1.345	1.362	1.383	1.406	140	1.446	1.448	1.428	1.402	1 352	1.267	1.175	1.122	1.152	1.046	1.011	0.991 0.978	
Name	v (cm ⁻¹ )	0 2301	1959.8	1961.7	1965.7	1967.5	1969.5	1971.4	1973.3					1084 0	1086.8	1088.8	1990.7	1007 6	1994.5	1996 5	1998.4	2000.3	2002.3	2004.2	2006.1	2008.0	2010.0	2011.9	2013.8	2015.8	2017.7	2019.6	2021.3	2023.3	2027.3	2029.3	2031.2	2033.1	2035.0	2038.9	2040.8	2042.8	2044.7	2040.0	20505	2052.4	2054.3	2056.3	2028.2	2062.1	2064.0	2065.9 2067.8	
(cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k v (cmr ⁻¹ ) n k	٧.	4	0.002	0.002	0000	0.00	0.000	0.002	0000	0.000	30.0	300	70.00	35.0	0.00	000	0.00	000	0000	000	0.002	0.00	0.002	0.002	0.002	0.003	0.003	0.003	0.005	0.003	0.003	0.003	0.00	900	0.003	0.001	0.003	0.003	300	0.00	0.003	0.003	0.00	3.6	0.002	0.003	0.003	0.002	0.003	0.003	0.002	0.002	500.U
National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Process   National Pr	-	1000	1.228	1.230	1.228	1.230	1.228	1.229	1.229	1.230	1.250	1 232	1.434	1.231	1 232	1 233	1 232	1 233	1.233	1 233	1.234	1.234	1.235	1.236	1.236	1.237	1.238	1.239	1.238	1.238	1.239	1.239	1 240	1 240	1.240	1.240	1.241	1.241	1 241	1.243	1.243	1.244	1.244	1 244	1.245	1.245	1.245	1.246	1.247	1.247	1.248	1.250	1.250
Name	v (cm ⁻¹ )	1,1231	1679.2	1686.9	1594.6	1710.0	1717.7	1725.4	1733.2	1740.9	1756.0	17640	5.57.	1770 5	1787	1794.9	1802 6	1810 3	1818.0	1825.8	1833.5	1841.2	1848.9	1856.6	1864.3	1872.1	1879.8	1887.5	1895.2	1901.9	1903.9	1905.8	1900.7	1911 6	1913.5	1915.5	1917.4	1919.3	1923.2	1925.1	1927.0	1929.0	1930.9	1934.7	1936.7	1938.6	1940.5	1942.5	1946.3	1948.2	1950.2	1954.0	1936.0
Name	×	2	0.002	0.003	0.003	000	0.000	0.000	0.000	0.000	90.0	0.00 0.000	700.0	7000	36	0.002	0000	0000	0.002	0000	0.002	0.000	0.002	0.002	0.002	0.000	0.002	0.002	0.002	0.002	0.000	0.002	0.00	0.002	0.002	0.002	0.000	0.000	0.00	0.000	0.002	0.002	0.002	0.002	0.002	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.000
Name of Comparison	-	. 22	1.223	1.225	277.1	1.226	1.226	1.225	1.225	1.226	1.22.1	1.22	1.22	1 225	1 225	1 224	1 225	1 225	1.225	1 225	1.225	1.226	1.225	1.226	1.227	1.226	1.226	1.226	1.225	1.225	1.224	1,226	1 226	1 225	1.225	1.226	1.227	1.226	1 225	1.227	1.227	1.226	1.227	1 228	1.226	1.228	1.228	1.22.1	1.227	1.227	1.228	1.230	1.448
Name	v (cm ⁻¹ )	0 7101	1223.9	1231.6	1239.4	1254.8	1262.5	1270.2	1277.9	1285.6	1293.4	1301.1	1216 5	1324.2	1331 0	1339.7	13474	1355 1	1362.8	1370.5	1378.2	1386.0	1393.7	1401.4	1409.1	1416.8	1424.5	1432.3	1440.0	1447.7	1455.4	1465.1	1478.5	1486.3	1494.0	1501.7	1509.4	1517.1	1532 6	1540.3	1548.0	1555.7	1563.4	1578.8	1586.6	1594.3	1602.0	1609.7	1625.1	1632.9	1640.6	1656.0	1005./
Name	يد	18	800	0.00	38	0.00	0.003	0.003	0.003	0.003	36		36		38	000	0000	0.00	0000	0.003	0.003	0.003	0.00	0.003	0.000	0.000	0.003	0.000	0.000	0.003	0.003	38	300	0000	0.003	0.00	0.003	0.003	0.00	0.003	0.000	0.000	0.00	0.003	0.003	0.000	0.003	90.0	0.003	0.003	0.003	0.003	700.0
(cm ⁻¹ ) n k 703.1 1.227 0.000 710.2 1.227 0.000 714.7 1.227 0.000 718.5 1.228 0.000 718.5 1.228 0.000 718.5 1.228 0.000 718.5 1.228 0.000 718.5 1.228 0.000 718.5 1.228 0.000 718.7 1.228 0.000 718.7 1.228 0.000 718.7 1.228 0.000 718.8 1.228 0.000 718.8 1.228 0.000 718.8 1.228 0.000 718.8 1.228 0.000 718.8 1.228 0.000 718.8 1.228 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 1.225 0.000 718.8 7.2 1.225 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7.2 0.000 718.8 7.2 1.2 7	_ c	1 212	1.217	1.219	1.221	1.222	1.222	1.223	1.224	1.222	1.223	1.242	1.222	1 223	1 225	1.224	1 223	1 225	1.224	1 224	1.225	1.223	1.225	1.224	1.225	1.225	1.225	1.225	1.224	1.224	1.224	527.1	1 225	1.226	1.226	1.229	1.221	1.224	1 224	1.224	1.225	1.224	1 2225	1.224	1.225	1.225	1.224	1 225	1.224	1.224	1.223	1.223	1.443
(Gm ⁻¹ ) n 703.1   1.227 710.8   1.229 714.7   1.227 724.1   1.227 737.8   1.228 734.0   1.227 741.7   1.228 744.1   1.228 744.1   1.228 744.1   1.228 744.1   1.228 745.1   1.228 746.1   1.228 747.2   1.228 748.1   1	v (cm ⁻¹ )	965 1	867.1	869.0	870.9	874.8	876.7	878.6	880.6	882.5	004.4	888.3	0000.7	200.7	894 1	896.0	897.9	809.9	902.6	915.3	923.0	930.7	938.4	946.2	953.9	9.196	969.3	0.77.0	984.7	992.5	1000.2	1007.9	1073.3	1031.0	1038.7	1046.5	1054.2	1061.9	1077.3	1085.0	1092.8	1100.5	1108.2	1123.6	1131.3	1139.0	1146.8	1162.5	1169.9	1177.6	1185.3	1200.8	1700.3
(cm ⁻¹ ) 703.1 703.1 703.1 710.8 710.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.8 7110.	×	000	0.00	0.000	300	0000	0.00	0.004	0.00	90.0	500	350	5 6	500	200	0000	0.00	000	0.00	0.00	0.000	0.004	0.00	0.004	0.000	0.004	0.004	0.004	0.000	0.000	400.0	90.0	0000	0000	0.000	0.004	0.00	4 50	0.00	0.004	0.000	0.000	0000	0000	0.000	0.004	0.00	0.00	0.004	0.007	0.027	0.016	0.00
v (cm ⁻¹ ) 703.0 703.0 703.0 703.0 703.0 703.0 704.8 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 722.4 7	- c	I٦	1.227	1.229	1777	1.227	1.227	1.228	1.227	1.229	1 226	1 228	1 226	1 225	1 227	1.224	1.228	1 228	1.227	1.225	1.228	1.226	1.227	1.227	1.226	1.226	1.224	1.225	1.226	1.227	1.225	1.227	1 226	1.228	1.227	1.226	1.228	227.1	1.226	1.226	1.227	1.226	1 228	1.230	1.229	1.232	1.231	1.231	1.236	1.242	1.245	1.202	1.402
	v (cm ⁻¹ )	703 1	707.0	710.8	716.7	722.4	726.3	730.1	734.0	727.8	7755	749.4	7533	757.1	761.0	764.8	768.7	772.6	776.4	780.3	784.1	788.0	791.8	795.7	9.667	801.5	803.4	805.3	807.3	809.2	811.1	815.1	8169	818.8	820.8	822.7	824.6	826.6	830.4	832.3	834.3	836.2	838.1	842.0	843.9	845.9	847.8	8516	853.6	855.5	859.4	861.3	7.500

TABLE 17D  $N_2$ :OCS = 20:1 AT 25 K

V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   k   V(cm ² )   c   V(cm ²	II		
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		1211	
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n         k         √ (cm ¹ )         n         k         √ (cm ² )         1.22         0.000         1857.1         1.21         0.000         1879.2         1.22         0.000         1879.2         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.22         0.000         1879.3         1.23         0.000         1879.3         1.23         0.000         1879.3         1.23         0.000         1879.3	<u>×</u>	0.0003 0.0003 0.0003 0.0003 0.0004 0.0004 0.0004 0.0005 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.	
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n         k         √ (cm ⁻¹ )         n         k         √ (cm ⁻¹ )         n         k           1.228         0.004         865.1         1.214         0.000         1216.2         1.224         0.000           1.227         0.000         867.1         1.218         0.000         1233.9         1.224         0.003           1.227         0.000         867.1         1.218         0.000         1234.1         1.224         0.003           1.227         0.000         877.2         1.221         0.000         1247.1         1.224         0.003           1.227         0.000         878.2         1.220         0.000         1247.1         1.224         0.003           1.227         0.000         878.4         1.222         0.000         1277.9         1.224         0.000           1.227         0.000         884.4         1.222         0.000         1277.9         1.224         0.000           1.228         0.004         886.4         1.222         0.000         130.1         1.224         0.000           1.227         0.000         884.4         1.222         0.000         130.2         1.224         0.000 <t< th=""><th>g c</th><th>1223 1223 1223 1223 1223 1223 1223 1223</th><th>1.248</th></t<>	g c	1223 1223 1223 1223 1223 1223 1223 1223	1.248
n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         k         v (cm ⁻¹ )         n         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r         r <th>v (cm⁻¹)</th> <th>1671.4 1686.6 1702.3 1710.0 1711.0 1711.0 1711.0 1711.0 1723.4 1748.6 1748.6 1748.6 1749.5 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 1872.1 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n         k         v (cm ⁻¹ )         n         k         v(cm ⁻¹ )         n         r         v(cm ⁻¹ )         n         r         v(cm ⁻¹ )         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n <th< th=""><th>×</th><th>00000000000000000000000000000000000000</th><th>0.00</th></th<>	×	00000000000000000000000000000000000000	0.00
n         k         v (cm ⁻¹ )         n         k           1.228         0.004         865.1         1.214         0.000           1.227         0.000         867.1         1.218         0.000           1.228         0.000         867.1         1.218         0.000           1.229         0.000         870.9         1.221         0.000           1.227         0.000         870.9         1.221         0.000           1.227         0.000         874.8         1.220         0.000           1.226         0.000         874.8         1.220         0.000           1.227         0.000         874.8         1.220         0.000           1.228         0.004         886.4         1.222         0.000           1.229         0.000         874.9         1.221         0.000           1.226         0.004         886.3         1.222         0.000           1.227         0.004         887.1         1.222         0.000           1.228         0.004         887.1         1.223         0.000           1.229         0.004         887.1         1.224         0.000           1.229         0	_ c		1.227
n         k         k (cm ⁻¹ )         n           1.228         0.004         865.1         1.218           1.227         0.000         867.1         1.218           1.229         0.000         867.1         1.218           1.229         0.000         870.9         1.220           1.227         0.000         870.9         1.221           1.227         0.000         874.8         1.220           1.228         0.000         876.7         1.221           1.229         0.000         876.7         1.221           1.229         0.000         876.7         1.222           1.229         0.000         876.1         1.223           1.229         0.000         876.1         1.223           1.229         0.000         886.4         1.222           1.229         0.000         887.1         1.223           1.229         0.004         897.9         1.224           1.229         0.004         897.9         1.224           1.226         0.004         897.9         1.224           1.226         0.004         897.9         1.224           1.226         0.004 <th>(v (cm⁻¹)</th> <th>1210.2 1210.2 1231.9 1231.9 1252.3 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9</th> <th>1663.7</th>	(v (cm ⁻¹ )	1210.2 1210.2 1231.9 1231.9 1252.3 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9 1252.9	1663.7
New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York	<b>X</b>		0.003
n k k   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,227   0,000   1,227   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228   0,000   1,228	c	2	1.223
n	v (cm ⁻¹ )	865.1. 865.1. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 872.9. 87	1208.5
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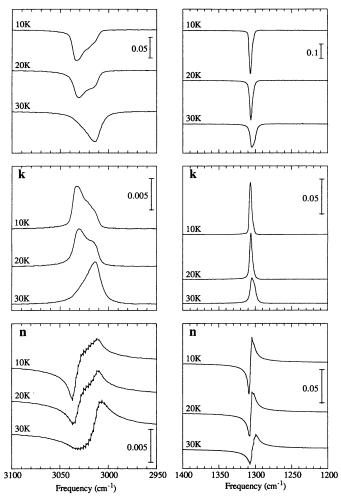


Fig. 18.—The 3100 to 2950 cm⁻¹ and 1400 to 1200 cm⁻¹ transmission spectra and optical constants (n and k) of an O₂:CH₄ = 20:1 ice mixture at temperatures of 10, 20, and 30 K. The original ice was deposited at 10 K.

(1) n (1) n (1) n (2) 1249 (2) 1249 (3) 1249 (4) 1249 (5) 1249 (6) 1249 (7) 1249 (8) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1249 (9) 1250 (9) 1250 (9) 1250 (9) 1250	.9 1.250 0.000
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TABLE 18B  $O_2$ :CH₄ = 20:1 AT 20 K

k	W 1	0000 0000 0000 0000 0000 0000
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v (cm ⁻¹ )		3292.7 3318.8 3338.1 3357.3 3376.6 3395.9
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v (cm ⁻¹ )	V (Cm-1) 3006.8 3006.8 3006.8 3006.8 3008.7 3008.7 3008.7 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6 3011.6	3053.1 3054.0 3055.0 3055.9 3055.9 3057.9 3058.8 3058.8
14	A       0.00000000000000000000000000000000000	000000000000000000000000000000000000000
=	1	1.252 1.252 1.252 1.252 1.252 1.253 1.253
v (cm ⁻¹ )	V (CIII-1) 2950.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8 2951.8	2997.1 2998.1 2998.0 3000.0 3001.0 3002.9
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=	1	1.250 1.250 1.250 1.250 1.250 1.250 1.250
v (cm ⁻¹ )	V (CITI-1) 187.00 188.00 188.00 188.00 188.00 188.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.00 198.0	2757.4 2776.7 2796.0 2815.3 2834.6 2853.9 2873.2 2873.2
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v (cm ⁻¹ )	v (cm - 1) 1361.8 1362.8 1363.8 1364.7 1365.7 1365.7 1365.7 1365.7 1365.7 1365.7 1365.7 1365.7 1365.7 1365.7 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.5 1370.	1618.4 1637.7 1657.0 1676.3 1695.6 1714.8 1734.1 1753.4
ĸ	k   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000	000000000000000000000000000000000000000
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v (cm ⁻¹ )	V (CIL-1) 1306.9 1306.9 1306.9 1306.9 1306.9 1310.7 1311.7 1311.7 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5 1311.5	1353.2 1354.1 1355.1 1356.1 1358.0 1358.9 1359.9
k		0.002 0.002 0.004 0.006 0.010 0.017 0.036
u	1252 1252 1252 1253 1253 1253 1253 1253	1.265 1.267 1.271 1.273 1.274 1.280 1.280
v (cm ⁻¹ )	v (cm-1) 1248.0 1248.0 1250.9 1250.9 1251.9 1252.9 1252.9 1252.8 1252.9 1256.6 1266.6 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1266.3 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0 1277.0	1290.3 1297.2 1298.2 1299.2 1300.1 1301.1 1302.0 1303.0
k	k k	000000000000000000000000000000000000000
u	1	1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252
v (cm ⁻¹ )	V (CIII-1) 1018.5.1 1018.6.1 1057.1 1057.1 1076.4 1193.6 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 1119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3 119.3	1239.4 1240.3 1241.3 1242.2 1243.2 1244.2 1245.1 1246.1

	×	0.00 0.000	000	0.00	38	0.000	000	000	0.000	0.00	900		0000	0.000	0.000	30.0	000	0.000	0.00	0.000	0.00	98	38	88	800	0.00	0.000	0.00	3 6	000	0.00	0.00	38	0.00	0.000	98		0.000	0.000	0.00		0.00	0.00		0.000		
	_	1.249 1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1 249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.250	1.250	1 250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250		
	v (cm ⁻¹ )	3060.8 3061.7	3062.7	3064.6	3065.6	3067.5	3068.5	3070.4	3071.4	3072.3	3073.3	3074.3	3076.2	3077.2	3078.1	30/9.1	3081.0	3082.0	3083.0	3083.9	3084.9	3085.8	3080.8	3088.7	3089.7	3090.7	3091.6	3092.6	3093.6	3095.5	3096.5	3097.4	3098.4	3119.1	3138.4	3157.7	31963	3215.6	3234.9	3254.1	32/3.4	3318.8	3338.1	3376.6	3395.9		
	k	0.002	0.00	0.00	5000	0.006	0.007	0.007	0.007	0.006	0.006		0.005	0.005	0.005	4000	200	0.004	0.003	0.003	0.003	0.003	0.007	0.00	0.002	0.002	0.002	0.001	0.00	0.001	0.000	0.000	38	0.000	0.000	0.000		0.000	0.000	0.000	000	0.000	0.000	0000	0.000	0.00	]
	С	1.254 1.254	1.255	1.254	1.254	1.253	1.252	1.251	1.250	1.250	1.249	1.248	1 249	1.248	1.248	1.248	1.247	1.247	1.247	1.247	1.247	1.247	1.247	1 247	1.247	1.247	1.247	1.247	1.247	1.248	1.248	1.248	1 248	1.248	1.248	1.248	1 248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.249	1.249	
	v (cm ⁻¹ )	3004.8 3005.8	3006.8	3008.7	3009.7	3011.6	3012.5	3014.5	3015.4	3016.4	3017.4	3018.3	3020.3	3021.2	3022.2	3023.2	3025.1	3026.0	3027.0	3028.0	3028.9	3029.9	3030.9	3037.8	3033.8	3034.7	3035.7	3036.7	3037.6	3039.6	3040.5	3041.5	3042.4	3044.4	3045.3	3046.3	3048.2	3049.2	3050.2	3051.1	3052.1	3054.0	3055.0	3056.9	3057.9	3059.8	
	뇻	0.000	000	0.000	98	0.00	0.00	000	0.00	0.000	988	38	0000	0.00	0.000	986	000	0.000	0.000	0.000	0000	988	38		0000	0.000	0.000	0.00	38	0000	0.000	0000	38	0.000	0.000	98		0.00	0.000	0.000	000	0.000	0.00	0.00	0.001	0.002	1
	u	1.250 1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.251	1.252	1.252	1.252	1.252	1.252	1.252	1,252	1.252	1.252	1.252	1 252	1.252	1.252	1.253	1.253	1.253	1.253	1.253	1.253	1.254	
	v (cm ⁻¹ )	2911.8 2931.0	2950.8	2952.7	2953.7	2955.6	2956.6	2958.5	2959.5	2960.5	2961.4	2962.4	2964.3	2965.3	2966.3	2,767.2	2969.1	2970.1	2971.1	2972.0	2973.0	2974.0	29/4.9	20162	2977.8	2978.8	2979.8	2980.7	7000	2983.6	2984.6	2985.5	2980.5	2988.4	2989.4	2990.4	2991.3	2993.3	2994.2	2995.2	2996.1	2998.1	2999.0	3001.0	3001.9	3002.9 3003.9	
	ᅩ	0.000	000	0000	0000	0.000	0.00	000	0.000	0000	900	36	0000	0.000	0.000	0000	0000	0.000	0.000	0.000	0.000	0000		000	0000	0.000	0.000	0.000	900	0000	0.000	0000	300	0.000	0.000	9000		0.000	0.000	0.000	0000	0.000	0000	0000	0.000	0000	1
		1.250 1.250								1.250						1.250					1.250			1 250	1.250		1.250		057.1			1.250			1.250					1.250	1.250	1.250	1.250	1.250	1.250	1.250	
00.1 A1.00	v (cm ⁻¹ )	1792.0 1811.3	1830.6	1869.2	1888.4	1927.0	1946.3	1984.9	2004.2	2023.5	2042.8	2002.1	2100.6	2119.9	2139.2	2158.5	2197.1	2216.4	2235.7	2254.9	2274.2	2293.5	2317.8	2352.1	2370.7	2390.0	2409.3	2428.6	2447.8	2486.4	2505.7	2525.0	2563.6	2582.9	2602.2	2621.4	2660.0	2679.3	2698.6	2718.9	2757.4	2776.7	2796.0	2834.6	2853.9	2875.2 2892.5	
7 - 411	ᅩ	0.000	000	0.00	900	00.0	0.00	36	000.0	0.000	000	38	0000	0.000	0.000	9.0	38	0.000	0.000	0.000	000	98	38	3 6	000	0.00	0.000	0000	3 8	0000	0.000	0000	38	0000	0.000	000	30	0.00	0000	000	000	0.000	0000	0.0	000	000	
5.	r r	1.248 1.248	1.248	1.248	1.248	1.248	1.248	1 248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.249	1.249	1.249	1.249	1.249	1 249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.4,70
	v (cm ⁻¹ )	1361.8 1362.8	1363.8	1365.7	1366.7	1368.6	1369.6	1371.5	1372.5	1373.4	1374.4	13763	1377.3	1378.2	1379.2	1380.2	1382.1	1383.1	1384.0	1385.0	1386.0	1386.9	1387.9	1389.8	1390.8	1391.7	1392.7	1393.7	1394.0	1396.6	1397.5	1398.5	1399.5	1438.5	1457.8	1477.1	1515.7	1535.0	1554.3	1573.5	1618.4	1637.7	1657.0	1695.6	1714.8	1753.4	11.77.1
	¥	0.037	0.022	0.010	0.007	0.00	0.003	0.003	0.002	0.002	0.002	36	0.00	0.000	0.001	300	0000	0.000	0.000	0.000	0000	900	38	0000	0000	0.000	0.000	0000	300	0000	0.000	0000		0.000	0.000	900	000	0.000	0000	0000	0000	0.000	0000	0000	0.000	800	2007
	<b>-</b>	1.238 1.233	1.230	1.231	1.233	1.236	1.238	1.240	1.240	1.241	1.242	1.242	1.243	1.243	1.244	1.244	1.245				1.245	1.246	1.240	1 246	1.246	1.246	1.246	1.246	1.247	1.247	1.247	1.247	1.247	1.247	1.247	1.247			1.247	1.247	1.248	1.248	1.248			1.248	1
	v (cm ⁻¹ )	1304.9 1305.9	1306.9	1308.8	1309.8	1311.7	1312.7	1314.6	1315.5	1316.5	1317.5	1316.4	1320.4	1321.3	1322.3	1323.3	1325.2	1326.2	1327.1	1328.1	1329.1	1330.0	1331.0	1332.9	1333.9	1334.8	1335.8	1336.8	1338.7	1339.7	1340.6	1341.6	1342.0	1344.5	1345.4	1346.4	1348.3	1349.3	1350.3	1351.2	1353.2	1354.1	1355.1	1357.0	1358.0	1359.9	1,000.7
	ㅗ	0.000	000	0.000	98	0.000	0000	0000	0.000	0000	98		0000	0.000	0000	38	0000	0.000	0000	0.000	0000	98	38	000	0000	0.000	0.000	986		0000	0.000	000		0.000	0000	38	000	0.002	0.002	0.003	0.005	0.008	0.012	0.023	0.028	0.032	2000
	- 1	1.252 1.252																												1.256		1.257		1.258		1.259				1.264			1.271			1.255	1
	v (cm ⁻¹ )	1248.0 1249.0	1250.0 1250.9	1251.9	1252.9	1254.8	1255.8	1257.7	1258.6	1259.6	1260.6	1262.5	1263.5	1264.4	1265.4	1260.4	1268.3	1269.3	1270.2	1271.2	1272.1	12/3.1	1275.0	1276.0	1277.0	1277.9	1278.9	12/9.9	1281.8	1282.8	1283.7	1284.7	1286.6	1287.6	1288.5	1289.5	1291.4	1292.4	1293.4	1294.3	1296.3	1297.2	1298.2	1300.1	1301.1	1303.0	2,170
	ᆇ	0.000	90.0	0.000		0.000	90.0	000	0.000	0.000	0.00	000	0.000	0.000	0000	38	0000	0.000	0.000	0.000	0000	38		0000	0.000	0.000	0000	9000		0.000	0.000	0000		0.000	0.000	000	0000	0.000	0000	300	0000	0.000	0000	000.0	0.000	000	2000
	- 1			1.251											1.251			_	_				1.231		1.251								1 252						1.252							1.252	
	v (cm ⁻¹ )	1018.5 1037.8	1057.1 1076.4	1095.6	1138.6	1157.9	1177.1	1200.8	1201.7	1202.7	1203.7	1205.6	1206.6	1207.5	1208.5	12104.3	1211.4	1212.3	1213.3	1214.3	1215.2	1216.2	1218.1	1219.1	1220.1	1221.0	1222.0	1223.0	1223.3	1225.9	1226.8	1227.8	1229.7	1230.7	1231.6	1232.6	1234.5	1235.5	1236.5	1237.4	1239.4	1240.3	1241.3	1243.2	1244.2	1246.1	

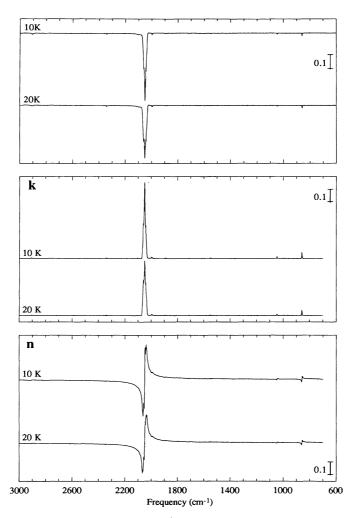


FIG. 19.—The 3000 to  $600 \text{ cm}^{-1}$  transmission spectra and optical constants (n and k) of an O₂:OCS = 20:1 ice mixture at temperatures of 10 and 20 K. The original ice was deposited at 10 K.

TABLE 19A  $O_2$ :OCS = 20:1 AT 10 K

<u> </u>	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	
=	1.245 1.245 1.245 1.245 1.245 1.245 1.245 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246 1.246	
v (cm ⁻¹ )	2578.0 2585.8 2501.2 2501.2 2601.2 2601.2 2601.2 2601.2 2601.2 2602.9 2602.9 2602.9 2602.9 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.7 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 2773.4 27	
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v (cm ⁻¹ )	12162 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1223.9 1338.0 1338.1 1347.4 1440.0 1338.1 1347.4 1440.0 1347.4 1440.0 1540.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 1551.1 155	1663.7
 	000000000000000000000000000000000000000	0.00
=	1254	1.254
v (cm-1)	865.1 867.1 867.1 867.1 877.9 877.9 877.9 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 886.4 890.2 890.2 890.3 890.2 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3 890.3	1208.5
حـ	0.000000000000000000000000000000000000	0.00
11	1254 1254 1254 1255 1255 1256 1256 1256 1257 1258 1258 1258 1258 1258 1258 1258 1258	1.234
v (cm ⁻¹ )	703.1 707.0 710.8 710.2 722.4 722.4 732.3 732.3 733.3 733.3 740.1 741.7 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1 741.1	863.2

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Ï	ᅩ	000		80.0	0.00	0.0	9.6	3 5		0.00	0.00	0.00	0.00	00.0	9.8	999	3 8	38	5 6	38				00.0	00.0	0.00	0.00	0.00	0.0	000	38		000	0.00	0.00	8.9	98	38	0.002	0.00	0.00	000	38		00.0	0.0	3 5	38	0.00			
	=	1.244	1 245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.246	1.246	1.246	1.246	1.246	1.246	1.240	1,246	246	1 246	1 246	1 246	1.246	1.246	1.246	1.246	1.246	1.247	1.247	1.247	240	1247	1.247	1.247	1.247	1.247	1.248	1 240	1.248	1.245	1.246	1.246	1.24/	1 247	1.247	1.248	1.248	1.248	1.248			
	v (cm ⁻¹ )	2578.0	2503.5	2601.2	2608.9	2616.6	2624.3	2632.1	2647.5	2655.2	2662.9	2670.6	2678.4	2686.1	2693.8	2701.5	7.60/7	2/10.9	2724.0	2740 1	2747.8	2755 5	2763.2	2770.9	2778.7	2786.4	2794.1	2801.8	2809.5	2817.2	2825.0	2840 4	2848.1	2855.8	2863.5	2871.2	28/9.0	2804.4	2902.1	2909.8	2917.5	2925.3	2933.0	2940.7	2956.1	2963.8	20707	2987.0	2994.7			
-	-	0000	900	0000	0.000	0.000	0000	900	000	0000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	900	3 6	900	0000		0000	0000	0.000	0000	0.000	0.000	0.001	0000	900	200	0000	0.000	0.000	0.000	0000	300	0000	0.000	0.000	0000	98		0.000	0.000	900	0000	0.000	0.000	0000	
									1.231																		1.239		_		1.24							1 243					244					124			1.245	- 1
	v (cm ⁻¹ )	2181.6	2185.5	2187.4	2189.4	2191.3	2193.2	2195.1	2199.0	2207.7	2215.4	2223.1	2230.8	2238.6	2246.3	2254.0	77077	2269.4	0.000	2207.6	23003	2308.0	2315.7	2323.4	2331.1	2338.9	2346.6	2354.3	2362.0	2369.7	23/1.4	2302.6	2400.6	2408.3	2416.0	2423.7	2431.4	2435.2	2454.6	2462.3	2470.0	2477.7	2483.5	25000	2508.6	2516.3	2524.0	2539.5	2547.2	2554.9	2562.6 2570.3	
1	$\dashv$	0.062	8000	0003	0000	000	0000	9.0	3.6	0.002	0.002	0.002	0.002	0.003	0.003	2000	4 5	4 6	7000	900	0000	300	000	000	000	0000	0.000	0.000	0.00	0000	98	888	000	0000	0.000	000	98	38	000	0.000	000.0	000	98		0000	0.000	36		0.000	0.000	000	
	- 1	1.031																					1202									1215			1.217		1.219									1.225					1.228	- 1
	/ (cm ⁻¹ )	2069.8	2073.6	2075.6	2077.5	2079.4	2081.3	2083.3	2083.2	2089.1	2091.0	2092.9	2094.8	2096.8	2098.7	2100.6	2102.6	2104.5	2100.4	21103	2112.2	2112.2	2116.1	2118.0	2119.9	2121.9	2123.8	2125.7	2127.6	2129.6	2131.5	2135.4	2137.3	2139.2	2141.1	2143.1	2145.0	2140.9	2150.8	2152.7	2154.6	2156.6	2158.5	2162.4	2164.3	2166.2	2168.1	2172.0	2173.9	2175.9	2177.8 2179.7	
-	k	0.000	35	100.0	0.001	0.001	0000	900		0.00	0.00	0.001	0.001	0.002	0.002	0.003	0.00	0.007	0.00	000	0000	200.0	0000	0.002	0.002	0.003	0.004	0.004	0.003	0.002	0.003	0000	400.0	9000	0.011	0.025	0.053	0.033	0.163	0.207	0.257	0.243	0.290	0.346	0.398	0.310	0.262	0.234	0.249	0.184	0.156	
:		1.282																405.1							1.316						1.344					1.433		1.40					1.393								1.028	- 1
	v (cm ⁻¹ )	1957.9	1061 7	1963.7	1965.6	1967.5	1969.5	19/1.4	1975.3	1977.2	1979.1	1981.0	1983.0	1984.9	1986.8	1988.8	1990.7	1992.6	1,000	1996.3	20003	2002.3	2004.2	2006.1	2008.0	2010.0	2011.9	2013.8	2015.8	2017.7	2019.6	2023 5	2025.4	2027.3	2029.3	2031.2	2033.1	2032.0	2038.9	2040.8	2042.8	2044.7	2046.6	2050.5	2052.4	2054.3	2056.3	2028.2	2062.1	2064.0	2065.9 2067.8	
`   -		0.000	38	000	0.000	0.002	000	38	36	0000	0000	0.000	0.000	0.00	000	000	30.0	3 6	3 6	300	0000	800		0000	0000	0.00	0.002	0.00	0.001	0.001	3.6	300	0000	0.000	0.000	0000	000	3.5	900	0.001	0.000	000	3 6	38	0000	0.000	9 6	300	0.00	0.001	000	0.00
		1.258																														1 270			1.272	1.272	1.272	1,272	1.273	m		1.274	<u> </u>		1.276	1.277	1.277	1.278	1.278	1.279	1.279	1.281
	v (cm ⁻¹ )	1671.4	1686 9	1694.6	1702.3	1710.0	1717.7	1725.4	1740 9	1748.6	1756.3	1764.0	7.1771	1779.5	1787.2	6.66	1802.6	1810.3	1076.0	1833.5	1841 2	1848 9	1856.6	1864.3	1872.1	1879.8	1887.5	1895.2	1901.9	1903.9	8.5061	1909.7	1911.6	1913.5	1915.5	1917.4	1919.3	1003.7	1925.1	1927.0	1929.0	1930.9	1932.8	1934.7	1938.6	1940.5	1044.5	1946.3	1948.2	1950.2	1952.1 1954.0	1956.0
-	×	000	38	0000	0.000	0.000	0000	986		0.000	0.00	0.000	0.000	0.000	0000	0000	30.0	98	3 6	36	0000	0000	0000	0000	0000	0000	0.000	0.000	0.000	0000	98	800	0000	0.000	0.001	0.000	0000		0000	0.003	0.001	0.001	98	36	0.002	0.002	0.00	000	0.000	0.001	0.00	0.000
		<b></b> -					<u> </u>	<b>~</b> 14	~ ·~		_					•	<b>~</b> 1	^ \r	- 14	- IC							٠,		· ·		o r		. ~		_	_				_	· ·				. ~	٠.		. ~	. ~	_ :	1.257	
	v (cm ⁻¹ )	1216.2	1231 6	1239.4	1247.1	1254.8	1262.5	12/0.2	1285.6	1293.4	1301.1	1308.8	1316.5	1324.2	1331.9	1339.7	4.7461	1353.1	1370.6	1378.2	13860	1393.7	14014	1409.1	1416.8	1424.5	1432.2	1440.0	1447.7	1455.4	1403.1	1478.5	1486.3	1494.0	1501.7	1509.4	1517.1	1537.6	1540.3	1548.0	1555.7	1563.4	15/1.1	1586.6	1594.3	1602.0	1609.	1625.1	1632.9	1640.6	1648.3 1656.0	1663.7
-	-	000	3.6	000	0.000	0.00	0.002	900		0000	0.000	0.000	0.001	0.00	0.001	0.002	7007	38	3 8	300	0000	0000	0000	0.002	0.002	0.00	0.002	0.002	0.000	0.00	200	36	0.002	0.002	0.012	000	98		0000	000.0	000.0	000	38	38	000.0	0000	30.0	000	000	0.000	000	0000
1																																																			1.254	- 1
	v (cm ⁻¹ )	865.1	1.708	870.9	872.9	874.8	876.7	8/8.6	882.5	884.4	886.4	888.3	890.2	892.1	894.1	896.0	6.769	899.9	015.2	923.0	930.7	938.4	946.2	953.9	961.6	969.3	977.0	984.7	992.5	1000.2	1007.9	1023.3	1031.0	1038.7	1046.5	1054.2	1001.9	1009.0	1085.0	1092.8	1100.5	1108.2	1173.6	11313	1139.0	1146.8	5.57	7.7011	1177.6	1185.3	1193.1 1200.8	1208.5
		000	888	000	000.0	000	0000	986	886	000.	000	000.	000.0	000	0000	986	38	38	38	300	000	000	000	000	000	000	000.	000.	000	900	38	2002	000	000	0000	000	96	38	000	000.	100.0	000	100	200	00.0	0.002	38	200	300.0	0.019	0.040	700.
																																																			1.259 0 1.238 0	
	v (cm ⁻¹ )	703.1	2108	714.7	718.5	722.4	726.3	734.0	737.8	741.7	745.5	749.4	753.3	757.1	761.0	8.407	/08./	776.4	780.3	784 1	7880	791.8	795.7	799.6	801.5	803.4	805.3	807.3	809.2	811.1	815.1	816.9	818.8	820.8	822.7	824.6	979.5	830.4	832.3	834.3	836.2	838.1	840.1	843.0	845.9	847.8	849.7	853.6	855.5	857.4	859.4 1 861.3 1	863.2
11-	_			-		_				_		_					-						_	_	_			_			_						_			_												_

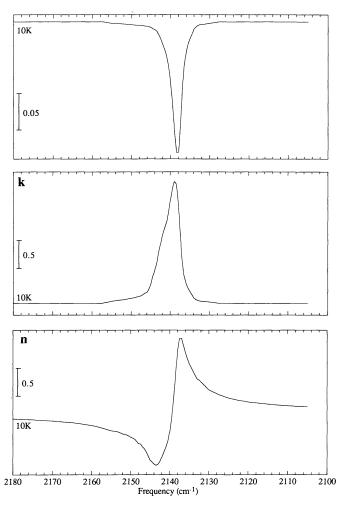


FIG. 20.—The 2180 to  $2100~\rm cm^{-1}$  transmission spectra and optical constants (n and k) of a pure CO ice at a temperature of 10 K.

TABLE 20 Pure CO at 10 K

v (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	ν (cm ⁻¹ )	n	k	v (cm ⁻¹ )	n	k
2105.0	1.415	0.000	2135.5	2.277	0.264	2142.5	0.441	1.034	2151.0	0.908	0.074
2110.0	1.434	0.000	2136.0	2.391	0.347	2143.0	0.386	0.893	2152.0	0.927	0.062
2115.0	1.461	0.000	2136.5	2.526	0.500	2143.5	0.366	0.702	2153.5	0.971	0.051
2120.0	1.502	0.000	2137.0	2.651	0.771	2144.0	0.392	0.553	2155.0	0.988	0.038
2122.5	1.532	0.000	2137.5	2.656	1.255	2144.5	0.423	0.459	2157.5	1.039	0.000
2125.0	1.573	0.000	2138.0	2.444	1.759	2145.0	0.467	0.327	2159.0	1.067	0.000
2127.5	1.634	0.000	2138.5	2.051	2.087	2145.5	0.533	0.250	2160.0	1.083	0.000
2130.0	1.721	0.023	2139.0	1.612	2.135	2146.0	0.602	0.190	2165.0	1.132	0.000
2132.5	1.895	0.040	2139.5	1.239	2.011	2146.5	0.660	0.174	2170.0	1.162	0.000
2133.0	1.912	0.050	2140.0	0.971	1.800	2147.0	0.705	0.150	2175.0	1.183	0.000
2133.5	1.981	0.068	2140.5	0.801	1.593	2147.5	0.751	0.128	2180.0	1.199	0.000
2134.0	2.054	0.094	2141.0	0.698	1.413	2148.0	0.753	0.122	2185.0	1.210	0.000
2134.5	2.123	0.158	2141.5	0.613	1.311	2149.0	0.835	0.101			
2135.0	2.191	0.209	2142.0	0.517	1.193	2150.0	0.875	0.088			