All data at: 296K and 1 atm

Wavenumber per cm:KNa per cm (KNa = α)

H2O:  
5344:0.55 == 1.87 um

7210:0.4 == 1.38696 um

7400:0.37 == 1.35135 um

8812:0.03 == 1.1348 um

10700:0.0129 == 0.93457 um

10638:0.0006 == 0.940 um

N2:

5344:-0.0275

7210:-0.17

7400:-0.14

8812:-0.112

Rest is unavailable

O2:

5344:7.36E-6

7210:2.98E-5

7400:1.1E-5

8812:1.1E-5

10700:3.355E-5

10638:2.6E-5

CO2:

5344:0.0209

7210:3.36e-3

7400:3.11e-3

8812:2.490e-3

10700:3.86e-3

10638:4.11e-3

VERKREGEN RESULTATEN N2 op 0

for wavelength: 1871.26 nm:

low humidity: 0.09944 Watt/cm2, -0.02423 dB

high humidity: 0.08478 Watt/cm2, -0.7169 dB

a difference of: -14.74% in intensity

and a change of: 0.6927 dB

for wavelength: 1386.96 nm:

low humidity: 0.09959 Watt/cm2, -0.01769 dB

high humidity: 0.08869 Watt/cm2, -0.5215 dB

a difference of: -10.95% in intensity

and a change of: 0.5038 dB

for wavelength: 1351.35 nm:

low humidity: 0.09963 Watt/cm2, -0.01621 dB

high humidity: 0.08949 Watt/cm2, -0.4822 dB

a difference of: -10.17% in intensity

and a change of: 0.466 dB

for wavelength: 1134.82 nm:

low humidity: 0.09997 Watt/cm2, -0.001435 dB

high humidity: 0.0991 Watt/cm2, -0.03922 dB

a difference of: -0.8662% in intensity

and a change of: 0.03778 dB

for wavelength: 940.03 nm:

low humidity: 0.09999 Watt/cm2, -0.0003156 dB

high humidity: 0.09998 Watt/cm2, -0.001071 dB

a difference of: -0.0174% in intensity

and a change of: 0.0007557 dB

for wavelength: 934.58 nm:

low humidity: 0.09998 Watt/cm2, -0.0009151 dB

high humidity: 0.09961 Watt/cm2, -0.01716 dB

a difference of: -0.3734% in intensity

and a change of: 0.01625 dB

Process finished with exit code 0