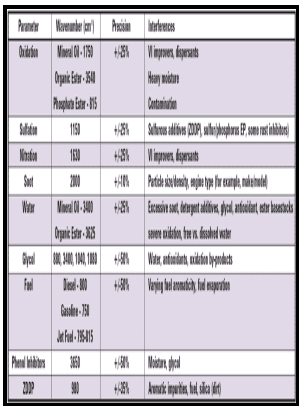
Tables of wavenumbers for the calibrations of infra-red spectrometers.

Butterworths - TABLES ON WAVENUMBERS FOR THE CALIBRARION OF INFRA



Parameter	Wavenumber (cm⁻¹)	Precision	Interferences
Oxidation	Mineral Oil - 1710 Organic Ester - 1740 Phosphate Ester - 915	+/-25%	VI improvers, dispersants Heavy moisture Contamination
Sulfation	1150	+/-25%	Sulfurous additives (ZDDP), sulfur/phosphorus EP, some rust inhibitors)
Nitration	1630	+/-25%	VI improvers, dispersants
Soot	2000	+/-10%	Particle size/density, engine type (for example, make/model)
Water	Mineral Oil - 3400 Organic Ester - 3625	+/-25%	Excessive soot, detergent additives, glycol, antioxidant, ester biocatalysis severe oxidation, free vs. dissolved water
Glycol	880, 3490, 1040, 1080	+/-50%	Water, antioxidants, oxidation byproducts
Fuel	Diesel - 800 Gasoline - 750 Jet Fuel - 790-815	+/-50%	Varying fuel aromaticity, fuel evaporation
Phenol Inhibitors	3653	+/-50%	Moisture, glycol
ZDDP	960	+/-25%	Aromatic impurities, fuel, silica (dirt)

Description: -
-Tables of wavenumbers for the calibrations of infra-red spectrometers.
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Wavenumbers for Calibration of IR Spectrometers

The calibration tables are illustrated by infrared spectra obtained under a variety of conditions. Tables of Wavenumbers for the Calibration of Infrared Spectrometers, Second Edition is a compilation of tables of wavenumber values for the calibration of infrared spectrometers. It makes the best use of high resolution results and integrates the far infrared data with the higher frequency values.

Wavenumbers for Calibration of IR Spectrometers

Data from these complementary techniques include the best Fourier transform measurements available.

Tables of Wavenumbers for the Calibration of Infrared Spectrometers: International Union of Pure and Applied Chemistry: Commission on Molecular Structure and Spectroscopy (Iupac Publication) 2, Cole, A. R. H.

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Wavenumbers for Calibration of IR Spectrometers, Atlas and Wavenumber Tables

This book is organized in two parts, one for high to medium-resolution spectrometers used by physical chemists and physicists, and the other for medium to low-resolution instruments employed by organic and inorganic chemists.

Wavenumbers for Calibration of IR Spectrometers, Atlas and Wavenumber Tables

Tables of Wavenumbers for the Calibration of Infrared Spectrometers, Second Edition is a compilation of tables of wavenumber values for the calibration of infrared spectrometers.

Wavenumbers for Calibration of IR Spectrometers, Atlas and Wavenumber Tables

The second part includes vapor, liquid, and solid phase calibrants for small spectrometers. The first part includes tables of wavenumber of infrared absorption lines in spectra of gaseous molecules as well as procedures for using the tables, including the calibration-curve method, the method of overlapping orders superposition method , and atomic line method. Since a limited number of absolute frequency measurements have been made, additional data from measurements using other techniques are used to determine frequency differences within each band.

TABLES ON WAVENUMBERS FOR THE CALIBRARION OF INFRA

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Wavenumbers for Calibration of IR Spectrometers

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