

Infrared Spectra Collections

STMDData

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Hummel Infrared Standards

Very high quality FT-IR spectra, the majority with a resolution of 2 cm^{-1} measured by Prof. Hummel, Germany, together with extensive sample information.

ISBN	Title	Spectra	Content	Single User Price Euro
3-527-31625-6	IR Hummel Industrial Polymers Volumes 1-3	5,000	Volumes 1-3	9210
3-527-31622-1	IR Hummel Industrial Polymers Volumes 1	1,900	Polymers, elastomers and fibers	3660
3-527-31623-X	IR Hummel Industrial Polymers Volumes 2	1,570	Monomers	2990
3-527-31624-8	IR Hummel Industrial Polymers Volumes 3	1,520	Additives and auxiliaries	2990
3-527-31627-2	IR Hummel Defined Polymers	2,900	Hummel selection of defined polymers	5600
3-527-31628-0	IR Hummel Defined Polymers Basic Collection	1,136	Selection from Defined Polymers	2190
3-527-31629-9	IR Hummel Surfactants	1,020	Surfactants	1950

Industrial Chemicals

High quality FT-IR spectra with a resolution between 2 and 4 cm^{-1} , together with structures and additional information

ISBN	Title	Spectra	Content	Single User Price USD
3-527-31632-9	IR Industrial Organic Chemicals Volume 1	10,000	Organic compounds from chemical industry	5450
3-527-31676-0	IR Industrial Organic Chemicals Volume 2	10,095	Organic compounds from chemical industry	5450
3-527-31631-0	IR Fluka Collection	2,491	Organic compounds from the Fluka catalogue	2590

Near-IR Spectra

1,900 common organic compounds each with two spectra in the region of $3,800 - 7,200\text{ cm}^{-1}$ and $6,300 - 10,500\text{ cm}^{-1}$, together with structures and additional information.

ISBN	Title	Spectra	Content	Single User Price USD
3-527-31630-2	Near Infrared spectra	1,900	Organic compounds	3700

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Detailed Description of the IR Data Collections

IR Hummel Industrial Polymers Volume 1	<p>This new collection of polymers, elastomers and fibers consists of spectra of natural and synthetic construction polymers, natural and synthetic fibers, elastomers, miscellaneous resins like natural resins, paint and finishing resins, impregnation and casting resins, dispersion, moulding and printing inks, oils, fats, waxes, tars, inorganic compounds, adhesives, putties, cements, protective colloids, curing agents, initiators and activators, accelerators and modifiers. The collection contains 1,900 polymer spectra with extensive sample information. All spectra are high quality FT-IR spectra at a resolution of 2 cm⁻¹ (data point distance 1 cm⁻¹). Associated legends quote references, inform about the origin and the synthesis of the polymers as well as the sample preparation. Each compound is identified by its IUPAC or common names.</p>
IR Hummel Industrial Polymers Volume 2	<p>The following is a breakdown of the monomer classes presented in the database: Vinyl monomers, pyrolyzates, alcohols, phenols carboxylic acids and their salts, esters, anhydrides, amides, hydrazides, urethanes, cyanates, fulminates, heterocycles, amino and thiocarboxylic acids, sulphonamides, technical solvents and more.</p> <p>With 1,570 spectra, this IR library is one of the world's largest commercially available collections of monomers used in polymerization processes. All spectra are high quality FT-IR spectra at a resolution of 2 cm⁻¹ (data point distance 1 cm⁻¹). Associated legends quote references, inform about the origin and the synthesis of the polymers as well as the sample preparation. Each compound is identified by its IUPAC or common names and chemical structure.</p>
IR Hummel Industrial Polymers Volume 3	<p>Additives and auxiliaries are among the most important products used in the polymer industry. Professor Hummel's new enhanced polymer additives and auxiliaries database provides a comprehensive reference source of information for polymer chemists and technologists. Prof. Hummel's enhanced database contains spectra of new materials that make structural determination and identification of polymer additives and auxiliaries faster and easier than ever before.</p> <p>The database contains 1,520 FT-IR spectra within the following classes: antioxidants, stabilizer (including PVC stabilizer), light stabilizer, coloring agents, brightening agents, fillers, plasticizers, elasticators, extenders, processing agents, textile auxiliaries, vulcanization agents and rubber auxiliaries.</p> <p>All spectra are high quality FT-IR spectra at a resolution of 2 cm⁻¹ (data point distance 1 cm⁻¹). Associated legends quote references, inform about the origin and the synthesis of the polymers as well as the sample preparation. Each compound is identified by its IUPAC or common names and chemical structure.</p>
IR Hummel Defined Polymers	<p>The collection contains 2,900 polymer spectra with extensive sample information. All spectra are high quality FT-IR spectra at a resolution of 2 cm⁻¹ (data point distance 1 cm⁻¹). Associated legends quote references, inform about the origin and the synthesis of the polymers as well as the sample preparation. Each compound is identified by its IUPAC or common names.</p>
IR Fluka Collection	<p>The Fluka IR collection comprises about 2,491 IR spectra and structures from compounds in the Fluka catalogue.</p> <p>In addition to the molecular structure, the following information is available depending on format: Chemical name, Molecular formula, Molecular weight, Measurement conditions, Comments</p>
IR Hummel Surfactants	<p>This database contains 1,020 spectra of surfactants. It has been compiled by Professor Dieter Hummel, University of Cologne in co-operation with Chemical Concepts. . All spectra are high quality FT-IR spectra at a resolution of 2 cm⁻¹ (data point distance 1 cm⁻¹). In addition to the spectrum, the following information is available: Chemical or technical names, Sample description, Source, Measurement technique</p>

IR Industrial Organic Chemicals Volumes 1 and 2	This collections contain 10,000 (Volume1) and 10,095 (Volume 2) Infrared spectra produced by chemical companies. 5,600 of these spectra are taken from literature spectra and recalculated from peak tables. In addition to the molecular structure, in most cases the following information is available: Chemical name, Purity, Melting point, Boiling point, Density, Molecular formula, Molecular weight, CAS-No, Measurement conditions, Resolution
Near Infrared Spectra	Chemical Concepts' Near Infrared Spectrum collection contains 1,900 common organic compounds each coming along with two spectra in the range of 3,800 - 7,200 cm^{-1} and 6,300 - 10,500 cm^{-1} . All spectra have been recorded on a Bruker IFS 88 spectrometer at a spectral resolution of 2 cm^{-2} . Chemical structures and additional information are included: Chemical name, Purity, Melting point, Boiling point, Density, Molecular formula, Molecular weight, CAS-No, Manufacturer's article number, Path length