



Sigma-Aldrich Library of FTIR Spectra

Sigma Aldrich, Wiley

DVD

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DESCRIPTION

Confident identification with the NEW Sigma-Aldrich® collection, by Wiley

The *Sigma-Aldrich Library of FT-IR Spectra* is a world-class, comprehensive collection of new FT-IR spectra sourced from the laboratories of Sigma-Aldrich* by Merck KGaA Darmstadt, Germany. Featuring over 11,000 pure compounds and over 11,250 spectroscopic records, this new collection includes Sigma-Aldrich catalog numbers, ensuring quick and accurate ordering of standards from Sigma-Aldrich.

Containing all new spectra, the *Sigma-Aldrich Library of FT-IR Spectra* works with existing workflows for confident identification.

The *Sigma-Aldrich Library of FT-IR Spectra* includes compound properties (molecular formula, mass, compound class) and FT-IR spectroscopic data, which has been evaluated by Wiley and third-party experts.

Source information is also provided in data fields, i.e. source of spectra and source of sample. Spectral data can be easily searched using multiple search parameters to assure confident compound matching. Featured spectra were measured in the spectral range of 4000 to 400 cm⁻¹ and compound classes include the following:

- 5-membered aromatic heterocycles and fused aromatic heterocycles
- 6-membered aromatic heterocycles and fused aromatic heterocycles
- Alkynes

- Aromatic compounds: acid halides, alcohols and phenols, aldehydes, amides, amines, amino acids and acid salts, anhydrides, carboxylic acids, esters and lactones, ethers, halogenated hydrocarbons, hydrocarbons, ketones, mercaptans and sulfides, nitriles & cumulated double bonds, nitro and nitroso compounds, phosphorus compounds, sulfur-oxygen compounds
- Boranes
- Coordination and complex compounds
- Deuterated compounds
- Heterocyclic N-oxides
- Mineral acids
- Non-aromatic compounds: acid halides, acid salts, alcohols, aldehydes, amides, amines, amino acids, anhydrides, carboxylic acids, esters and lactones, ethers, acetals and epoxides, halogenated hydrocarbons, hydrocarbons, ketones, mercaptans & sulfides, nitriles & cumulated double bonds, nitro and nitroso compounds, phosphorus compounds, sulfur-oxygen compounds
- Non-metallic inorganics
- Organometallic and arsenic compounds
- Oximes
- Polymers
- Schiff bases, azobenzenes, indicators & dyes
- Silanes
- Solutions
- Steroids and indole alkaloids

With its rapid data collection speeds and high sensitivity rates, FT-IR has come to be researchers' method of choice for characterization of materials. Offering both qualitative and quantitative analysis of many organic and inorganic compounds, FT-IR has naturally become a golden standard in laboratories, making the Sigma -*Aldrich Library of FT-IR Spectra* a must-have tool across many disciplines. While the scope of FT-IR is virtually limitless, some of its applications include uses in the environmental, food, forensics, pharmaceuticals, polymers and plastics, and quality control industries.

Library Specifications:

- FT-IR Spectra: 11,270
- Distinct Sigma-Aldrich Catalog Numbers: 11,270
- Searchable Chemical Structures: 11,240
- Unique Compounds: >11,200
- Structures with InChI Key: 11,097
- CAS Registry Numbers: 11,171

Compatibility:

- Shimadzu LabSolutions IR**
- Thermo GRAMS/SpectralID
- Bio-Rad KnowItAll®
- Wiley Spectra Lab

*Sigma-Aldrich is now Millipore Sigma.

**Shimadzu LabSolutions IR is available for ordering on DVD-ROM.

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