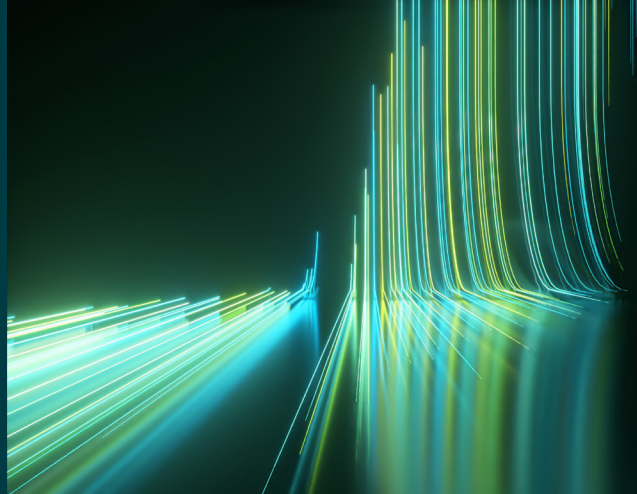


WILEY

Spectral Databases

From the leader in spectral data



Raman - Non-minerals - Wiley

Spectra – 56

This database is only available as part of the KnowItAll Raman Spectral Library subscription.



Description

Raman spectroscopy is a non-destructive technique that requires minimal sample preparation, works through glass or plastic containers, and provides molecular fingerprints that identify specific compounds. It is particularly powerful for organic materials that may be damaged by other techniques.

This collection of Raman spectra for non-mineral compounds features over 50 high-quality, additive-free reference spectra for advanced material identification and classification. Covering essential chemical classes including amino acids, polycyclic aromatic hydrocarbons (PAHs), carbon allotropes, and planetary analogs, this curated database is an indispensable resource for research and industry.



Applications

- Astrochemistry
- Environmental science
- Planetary science and astrobiology
- Geology and planetary science
- Quality control laboratories
- Electronics and semiconductors



Additional information

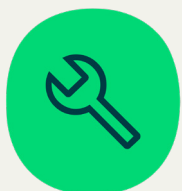
When it comes to spectral analysis, the more data you have the better. Wiley spectral databases provide much more information than simply the spectrum. Database records include the following valuable details when available:

- Chemical structure
- Chemical name
- Exact mass
- Formula
- InChI/InChIKey
- Molecular weight
- SMILES
- Instrument name
- Technique



Compound coverage

- Amino acids
- Polycyclic aromatic hydrocarbons (PAHs)
- Carbon Allotropes
- Planetary analogs



Technique

The spectra were generated using JASCO NRS-5500-532QRI Raman spectrometer. The resultant spectra were referenced to an internal white light source and baseline corrected. The data was collected in the region of 200-3400 cm^{-1} Stokes shift.



Trusted data from a trusted source

Wiley is the authoritative source for spectral data. Our renowned databases are processed according to rigorous protocols to ensure they are of the highest quality. Qualification procedures start at data acquisition and continue throughout the database development process. Any data acquired from trusted partners is thoroughly vetted before inclusion in our collections.