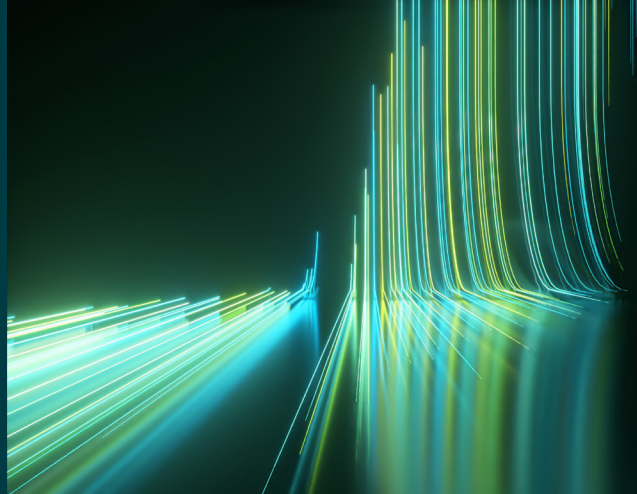


WILEY

Spectral Databases

From the leader in spectral data



IR - Drugs - Wiley

Spectra – 43

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



Description

Infrared (IR) spectroscopy enables the rapid identification of pharmaceuticals, quality control checks, and counterfeit drug detection. This molecular fingerprinting tool allows laboratories to verify drug authenticity, ensure batch consistency, and detect contaminants efficiently—critical capabilities for protecting public health in global supply chains where falsified medications pose serious risks.

Beyond quality assurance, the database accelerates drug development by characterizing polymorphs and optimizing formulations, while providing forensic laboratories with essential tools for identifying illicit substances. This database is invaluable for scientists working in regulatory compliance, scientific research, and for safeguarding patients from substandard pharmaceuticals.



Applications

- Pharmaceuticals
- Toxicology and forensic science
- Drug development
- Quality control
- Counterfeit drug detection
- Academic and industrial research on opioid chemistry



Additional information

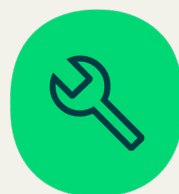
When it comes to spectral analysis, the more data you have the better. Wiley spectral databases provide much more information than simply the spectrum. Database records include the following valuable details when available:

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



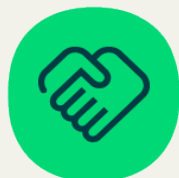
Compound coverage

- Synthetic opioids
- Synthetic analogs



Technique

The spectra were generated using Spectrum 100 FT-IR spectrometer. The data was collected in the region of 600-4000 cm^{-1} .



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.