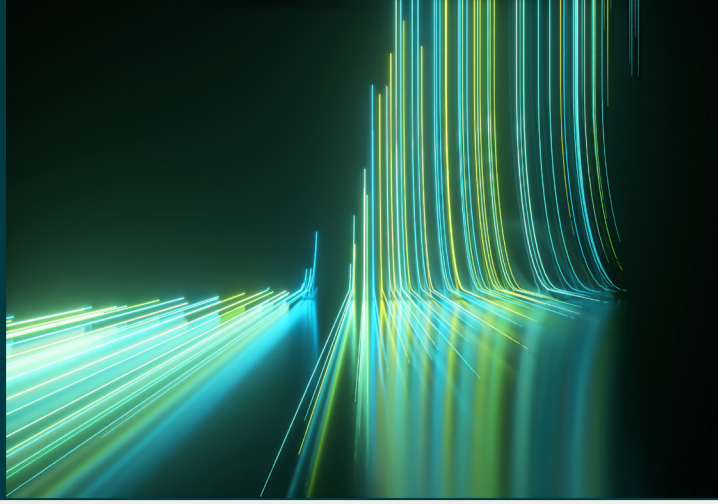
WILEY

Spectral Databases

From the leader in spectral data



Raman - Forensics - Wiley

Spectra – 33

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

Description

Raman spectroscopy provides forensic scientists with a rapid, non-destructive method for identifying and comparing evidence materials at the molecular level.

The Raman Forensics database contains spectra of colorants and dyes associated with textile and fabric analysis, enabling the detection and characterization of materials that may have been altered, treated, or intentionally modified.

These reference spectra support the examination of trace evidence, comparison of questioned and known samples, and identification of forensic materials commonly encountered in investigations. As the collection grows, additional forensic compounds, pigments, dyes, fibers, coatings, and other trace evidence materials may be incorporated to broaden database coverage and support a wider range of forensic applications.

Applications

- Forensic science
- Trace evidence analysis
- Textile and fiber examination
- Colorant and dye analysis

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
- Formula
- InChI/InChIKey
- Molecular weight
- Instrument name

Compound coverage

- Redyed fabric samples
- Underlying colorants
- Additional forensic trace-evidence categories

Compatibility

- Subscription includes KnowItAll ID Expert software for one-click basic spectral searches
- Optional: KnowItAll Analytical Edition (recommended for advanced analysis)
- Import spectra from most Raman instruments for direct comparison to reference spectra. For instrument compatibility, visit sciencesolutions.wiley.com/compatibility.

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.