Product Code - 876310

KnowItAll® UV-Vis Spectral Library

World's Largest UV-Vis Library

Bio-Rad's KnowItAll® UV-Vis Spectral Library of small organic molecules is the world's largest commercial collection of UV-Visible spectra. Measured in Bio-Rad's Laboratories, the collection is unparalleled in its quality and quantity.

Features

- Access nearly 31,000 high-quality UV-Vis spectra
- Library of pure organics representing a wide range of functional groups and classifications
- Along with spectra, records contain physical properties and structures when available
- Access the most recent data as it is added to the library
- Cost-effective way to access the most comprehensive UV-Vis spectral library

This library includes the KnowItAll ID Expert™ search software at no additional charge.

Applications

This library is extremely useful in determining the absorbance qualities of compounds. Access compounds within application areas such as material sciences, pharmaceuticals, forensics, paints, pigments, dyes, and more.

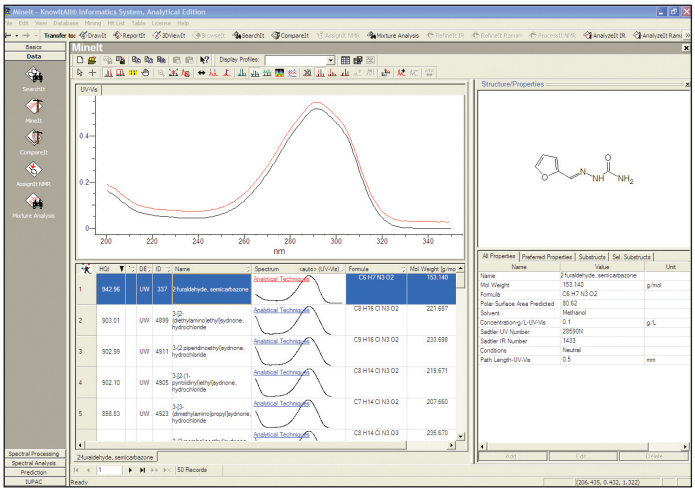
Highest-Quality Spectra

All spectra processed according to our Sadtler™ Data Review Protocol to ensure they are of the highest quality. These rigorous qualification procedures start at data acquisition and continue throughout the Library development process.

Additional Information Included in library

In order to make both qualitative and quantitative aspects of the curves more evident, each spectrum is provided with additional data when available:

- Name
- Chemical Structure
- Molecular Formula & Weight
- Solvent
- Concentration
- Path Length
- Conditions
- Polar Surface Area
- Molar Absorptivity (extinction coefficient)
- Absorbance Values



Includes the Following Spectral Databases

- UV-Vis - Sadtler 200 to 350 nm - Bio-Rad Sadtler - 21,660 spectra
- UV-Vis - Sadtler 200 to 500 nm - Bio-Rad Sadtler - 7,055 spectra
- UV-Vis - Sadtler 200 to 800 nm - Bio-Rad Sadtler - 2,006 spectra

Spectral ranges were chosen depending on nature of the compound.

Instrumentation

All spectra in this collection were prepared by Bio-Rad Laboratories on a Beckman Model 25, Cary 15, Varian DMS-300, or Shimadzu UV PC spectrometer. When acidic or basic moieties were present in the structure, the spectra were run in neutral, basic, and/or acidic conditions to observe shifts and absorbance changes in the spectra.

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