

# KnowItAll® NMR Spectral Library

## High-Quality Spectra for More Accurate Predictions

Bio-Rad's KnowItAll® NMR Spectral Library offers access to the highest-quality NMR reference spectra available.

### Features

- Access over 920,000 spectra - 573,000 <sup>13</sup>CNMR, 245,000 <sup>1</sup>HNMR, and 102,000 XNMR reference spectra
- Search the databases or predict NMR spectra using Bio-Rad's KnowItAll software
- Retrieve the experimental spectra used to build the prediction
- Along with spectra, records contain physical properties and structures when available
- Access the most recent data as it is added to the collection

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

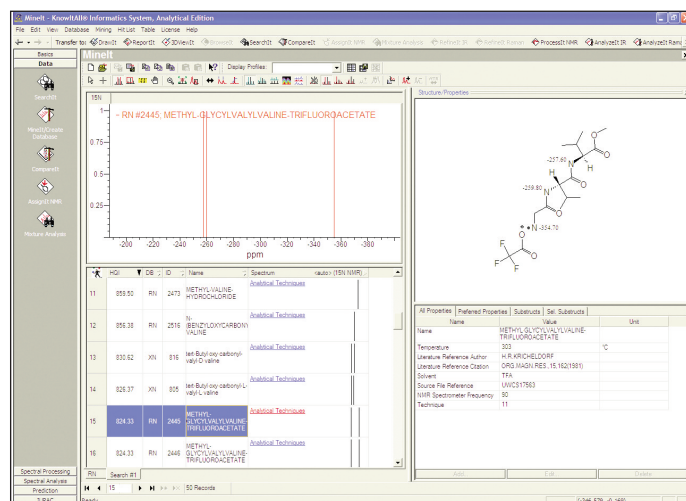
### Applications

This library is extremely useful for the prediction of NMR spectra. Whether the need is to access compounds within application areas such as material sciences, pharmaceuticals, forensics, paints, pigments, dyes, among others, researchers can be sure that this collection will meet their needs.

### Additional Information Included in Databases

The KnowItAll NMR Spectral Library provides much more information than simply the spectrum. Database records include the following details when available:

- Name
- Chemical Structure
- Molecular Formula & Weight
- Solvent
- Chemical & Physical Properties
- Source of Spectrum
- Sampling Technique



### Includes the Following Spectral Databases

#### CNMR

- <sup>13</sup>CNMR - Bio-Rad Sadtler
- <sup>13</sup>CNMR - Metabolites - Bio-Rad Sadtler
- <sup>13</sup>CNMR - Polymers & Monomers - Bio-Rad Sadtler
- <sup>13</sup>CNMR - Wolfgang Robien
- <sup>13</sup>CNMR - Organic Compounds - Wiley
- <sup>13</sup>CNMR - Flavors & Fragrances - Wiley
- <sup>13</sup>CNMR - Natural Products - Wiley
- <sup>13</sup>CNMR - AIST SDBS
- <sup>13</sup>CNMR - NIOSH Pocket Guide to Chemical Hazards Compounds

#### HNMR

- <sup>1</sup>HNMR - Bio-Rad Sadtler
- <sup>1</sup>HNMR - Chemical Shifts - Bio-Rad Sadtler
- <sup>1</sup>HNMR - Metabolites - Bio-Rad Sadtler
- <sup>1</sup>HNMR - NIOSH Pocket Guide to Chemical Hazards Compounds
- <sup>1</sup>HNMR - Organic Compounds 1 - Wiley
- <sup>1</sup>HNMR - Organic Compounds (Comprehensive) - Wiley
- <sup>1</sup>HNMR - AIST SDBS
- <sup>1</sup>HNMR - AIST SDBS (300 MHz)
- <sup>1</sup>HNMR - AIST SDBS (400 MHz)

#### XNMR

- <sup>11</sup>B NMR - Wolfgang Robien
- <sup>19</sup>F NMR - Wolfgang Robien
- <sup>15</sup>N NMR - Wolfgang Robien
- <sup>17</sup>O NMR - Wolfgang Robien
- <sup>31</sup>P NMR - Wolfgang Robien
- <sup>29</sup>Si NMR - Wolfgang Robien
- <sup>19</sup>F NMR - Wiley
- <sup>15</sup>N NMR - Wiley
- <sup>17</sup>O NMR - Wiley
- <sup>31</sup>P NMR - Wiley
- <sup>29</sup>Si NMR - Wiley



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