

## World's Largest Collection of Infrared Spectra

Bio-Rad's HaveltAll® IR spectral database offers the highest-quality infrared spectra available, including all of Bio-Rad's Sadtler infrared collections, along with several additional databases from Wiley and other sources.

### Features:

- Access 88 databases with 224,000 IR & 3,800 NIR spectra
- High-quality data, including Sadtler™ and Wiley collections
- Wide range of compounds from pure organics to industrial
- Includes ATR-IR and vapor phase collections
- Along with spectra, each record contains physical properties, structures, and other relevant information, when available
- Search against actual spectra from the instrument rather than theoretical or predicted spectra
- Import experimental spectra and search directly against database
- Search by spectrum, peak, structure, substructure, property or any combination

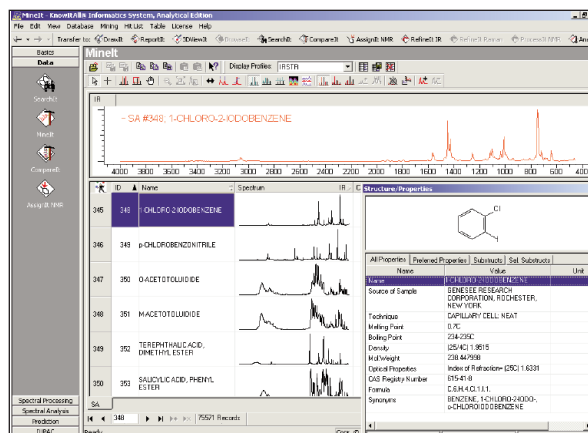
**Applications:** These databases are excellent tools for the interpretation, classification, identification, and verification of unknown compounds. Search polymers, pure organics, inorganics, organometallics, industrial compounds, and more.

**Highest-Quality Spectra:** Because of advances in spectroscopic computing, Bio-Rad now offers even higher resolution spectra.

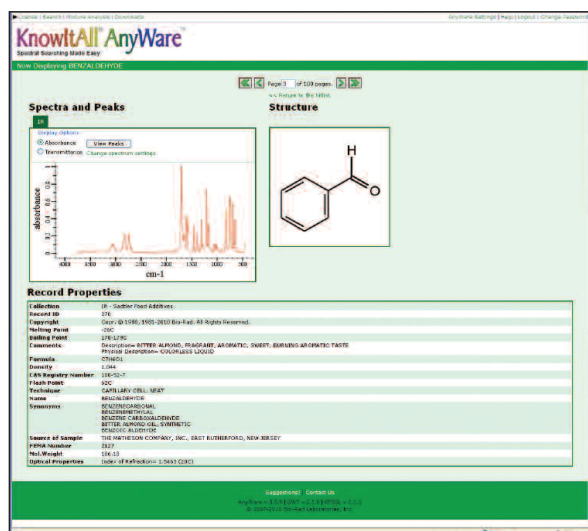
All spectra processed according to our Sadtler Data Review Protocol to ensure they are of the highest quality and can be easily reproduced by other researchers. These rigorous qualification procedures start at data acquisition and continue throughout the database development process.

**Additional Information Included in Databases:** HaveltAll IR provides much more information than simply the spectrum. Databases include the following details (when available) for each record:

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



Search with KnowItAll Informatics Software - For Advanced Analyses. Access HaveltAll IR with KnowItAll Informatics System: includes desktop software tools for advanced analysis, database building, reporting, and more.



Search with KnowItAll AnyWare™ - A Simple Web Browser Interface. Users can opt to access HaveltAll IR via a simple, intuitive interface that can be used with any operating system, including Windows, Macintosh, or Linux.

1. IR - Automobile Paint Chips
2. IR - Georgia State Crime Lab 
3. IR - Hummel/Sadtler Polymers 
4. IR - Merck/Sadtler 
5. IR - Organosilicons
6. IR - Sadtler Adhesives & Sealants
7. IR - Sadtler Adhesives & Sealants (Subset A)
8. IR - Sadtler ATR of Basic Polymers 
9. IR - Sadtler ATR of Controlled & Prescription Drugs 
10. IR - Sadtler ATR of Inorganics
11. IR - Sadtler ATR of Organometallics 
12. IR - Sadtler ATR of Polymers
13. IR - Sadtler ATR of Solvents 
14. IR - Sadtler Basic Monomers & Polymers Vol. I  
(Unmodified Monomers & Polymers) 
15. IR - Sadtler Basic Monomers & Polymers Vol. II  
(Unmodified Monomers & Polymers) 
16. IR - Sadtler Basic Surfactants (Unmodified Surfactants)
17. IR - Sadtler Coating Chemicals
18. IR - Sadtler Coating Chemicals
19. IR - Sadtler Commonly Abused Drugs (Acid)/(Base)
20. IR - Sadtler Condensed Phase IR Standards (Comprehensive) 
21. IR - Sadtler Controlled Pyrolyzates of Polymers
22. IR - Sadtler Demo Database 
23. IR - Sadtler Dyes 
24. IR - Sadtler Dyes, Pigments, and Stains
25. IR - Sadtler Electric Power Plant Materials
26. IR - Sadtler EPA Vapor Phase 
27. IR - Sadtler Epoxy Resins, Curing Agents, and Additives
28. IR - Sadtler Fats, Waxes, & Derivatives
29. IR - Sadtler Fibers & Textile Chemicals
30. IR - Sadtler Fibers by Microscope
31. IR - Sadtler Flame Retardants
32. IR - Sadtler Flavors, Fragrances, & Oils 
33. IR - Sadtler Food Additives
34. IR - Sadtler Food Additives 
35. IR - Sadtler Gases & Vapors 
36. IR - Sadtler Inorganics
37. IR - Sadtler Inorganics (Subset A)
38. IR - Sadtler Intermediates (Industrial Quality)
39. IR - Sadtler Intermediates (Unblended) 
40. IR - Sadtler Lubricant Additives
41. IR - Sadtler Lubricants
42. IR - Sadtler Minerals & Clays
43. IR - Sadtler Monomers & Polymers (Comprehensive) -
44. IR - Sadtler Monomers & Polymers Vol. I  
(Modified Monomers & Polymers)
45. IR - Sadtler Monomers & Polymers Vol. II  
(Modified Monomers & Polymers)
46. IR - Sadtler NIOSH Pocket Guide to Chemical Hazards Compounds - ATR 
47. IR - Sadtler NIOSH Pocket Guide to Chemical Hazards Compounds - IR 
48. IR - Sadtler NIOSH Pocket Guide to Chemical Hazards Compounds - VP 
49. IR - Sadtler Organometallics 
50. IR - Sadtler Pesticides & Agricultural Chemicals
51. IR - Sadtler Petroleum Chemicals
52. IR - Sadtler Pharmaceuticals
53. IR - Sadtler Plasticizers
54. IR - Sadtler Polymer Additives
55. IR - Sadtler Polymer Additives
56. IR - Sadtler Polyols
57. IR - Sadtler Prepared & Prescription Drugs (Acidic)/(Basic)
58. IR - Sadtler Priority Pollutants (Condensed Phase)/(Vapor Phase) 
59. IR - Sadtler Reference Database of Pure Organic Compounds 
60. IR - Sadtler Reference Database (Organic & Polymeric Compounds) 
61. IR - Sadtler Rubber Chemicals
62. IR - Sadtler Rubber Chemicals
63. IR - Sadtler/Scholl Polymer Processing Chemicals 
64. IR - Sadtler Select Standards 
65. IR - Sadtler Select Vapor Phase 
66. IR - Sadtler Selected IR Reference Database 
67. IR - Sadtler Solvents (Industrial Quality)
68. IR - Sadtler Solvents (Unblended) 
69. IR - Sadtler Solvents by Vapor Phase 
70. IR - Sadtler Steroids 
71. IR - Sadtler Steroids, Androgens, Progestins, & Estrogens 
72. IR - Sadtler Surfactants (Comprehensive)
73. IR - Sadtler Surfactants Vol. I (Modified Surfactants)
74. IR - Sadtler Surfactants Vol. II (Modified Surfactants)
75. IR - Sadtler Tutorial Database 
76. IR - Sadtler University Standards 
77. IR - Sadtler Vapor Phase IR Standards (Comprehensive) 
78. IR - Sadtler Water Treatment Chemicals
79. IR - Wiley Hummel Defined Polymers 
80. IR - Wiley Hummel Defined Polymers, Basic Collection 
81. IR - Wiley Hummel Industrial Polymers 
82. IR - Wiley Hummel Industrial Polymers (Additives) 
83. IR - Wiley Hummel Industrial Polymers (Monomers) 
84. IR - Wiley Hummel Industrial Polymers (Polymers) 
85. IR - Wiley Hummel Surfactants
86. IR - Wiley Industrial Chemicals, FT-IR, Basic Organic Compounds 
87. IR - Wiley Industrial Chemicals, FT-IR, Pure Organic Compounds 
88. NIR - Wiley Near IR Spectra Collection of Common Organic Compounds  
(Low)/(High) 

Please see [www.knowitall.com/literature](http://www.knowitall.com/literature) for details on individual databases.



**Bio-Rad  
Laboratories, Inc.**

**Informatics Division**  
[www.knowitall.com](http://www.knowitall.com)

**China**  
**Europe, Middle East, Africa**  
**India**  
**Japan, Taiwan, Korea**  
**USA**  
**All Other Countries**

Phone: +86 010 5939 0088 x381 • Email: [informatics.china@bio-rad.com](mailto:informatics.china@bio-rad.com)  
Phone: +44 20 8328 2555 • Email: [informatics.europe@bio-rad.com](mailto:informatics.europe@bio-rad.com)  
Phone: +91 124 4029300 • Email: [informatics.india@bio-rad.com](mailto:informatics.india@bio-rad.com)  
Phone: +81 3 (6361) 7080 • Email: [informatics.jp@bio-rad.com](mailto:informatics.jp@bio-rad.com)  
Phone: +1 267 322 6931 • Toll Free: +1 888 5 BIO-RAD (888-524-6723) • Email: [informatics.usa@bio-rad.com](mailto:informatics.usa@bio-rad.com)  
Phone: +1 267 322 6931 • Email: [informatics.worldwide@bio-rad.com](mailto:informatics.worldwide@bio-rad.com)