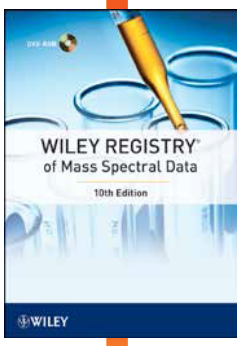
Wiley Registry® of Mass Spectral Data, 10th Edition

Wiley



Introduction

Analytical laboratories face increasingly diverse demands – ranging from identification of general unknowns to single ion monitoring. One of the most demanding tasks is general unknown identification and deformulation from a variety of sources, including in vivo. Single ion monitoring or even specialized library searches leaves out some or all of the compounds present. The Wiley Registry® of Mass Spectral Data provides the broadest compound coverage available in any commercially available mass spectral library. Over 80% of the compounds in the spectral library are not available in the NIST 2011. Many spectra are sourced from multiple measurements of both synthesized compounds and biological sources, providing both the breadth and depth researchers need to have confidence in their results.

For over 40 years, John Wiley and Sons has worked with the world's leading researchers and practitioners to deliver the spectral libraries mass spectrometrists have come to rely on as the gold standard in mass spectrometry. Dr. Fred McLafferty, Editor of Wiley Registry ® of Mass Spectral Data, Editions 1-9, began his data collection in 1956 and collaborated with Drs. Einar Stenhaggen and Sixten Abrahamsson to edit the original Atlas of Mass Spectral Data, which predated other commercial or government efforts. Over the years, the collection has grown to now comprise over 719,000 mass spectra covering over 638,000 compounds.

Key Benefits

- Over 719,000 spectra
- Over 684,000 searchable chemical structures
- Over 638,000 compounds
- Over 2 million chemical names and synonyms
- Data acquired under standarized conditions
- Includes CAS Numbers
- Largest mass spectral library ever commercially available
- Over 3X the coverage of the next largest spectral library
- Applications include forensics, quality assurance, environmental science and more

Compound Coverage

Compound coverage for individual compounds can be verified at **www.compoundsearch.com**

What's New

8th Edition
- year: 2006
- spectra: 399,000
- compounds: 310,000
- searchable structures: 182,000

9th Edition
- year: 2009
- spectra: 662,000
- compounds: 592,148
- searchable structures: 565,133

10th Edition
- year: 2013
- spectra: 719,000
- compounds: 638,000
- searchable structures: 684,000

Compatibility

Compatible with most current and legacy mass spectrometry data systems, including:

- ACD/Labs MS Manager
- Leco
- JEOL
- Bruker/Varian
- Agilent (Chemstation, MassHunter)
- PerkinElmer TurboMass
- Waters MassLynx
- NIST MS Search 2.2
- Shimadzu GCMS Solution
- ThermoScientific (Spectral ID, XCalibur)

Author Biography

Professor Fred W. McLafferty's name is synonymous with the development and refinement of the mass spectrometric techniques. Dr. McLafferty was the founding father of the fundamental mechanistic scheme in mass spectrometry with systematic interpretation of mass spectra that eventually has made computerised spectral interpretation possible.

Fred McLafferty has co-authored over 450 scientific publications and overseen the Wiley Registry ® for the past 40 years. He is a member of the National Academy of Sciences in 1982 and the American Academy of Arts and Sciences in 1985. Among the number of awards received by Fred McLafferty, we note the Analytical Chemistry Fisher Award in 1981, the J.J. Thomson Gold Medal in 1985, the ACS award on Instrumentation in 1989 and the Mass Spectrometry Field and Franklin Award in 1989.

Ordering Information

Wiley Registry of Mass Spectral Data, 10th Edition
CD-ROM ISBN: 978-0-470-52037-6

Wiley Registry of Mass Spectral Data, 10th Edition Upgrade
CD-ROM ISBN: 978-1-118-52549-4

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