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Wiley Registry of Mass Spectral Data 2023

From the Leader in Spectral Data

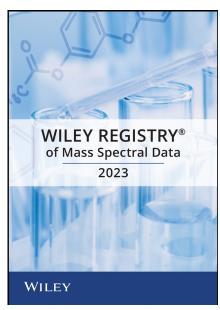


The essential GC-MS library for confident spectral analysis

The **field-tested and proven** *Wiley Registry of Mass Spectral Data* continues to empower laboratories worldwide. The 2023 release of this vital MS database provides access to over **873,000 spectra*** with expanded coverage to expedite your workflow even further.

Designed for use across multiple applications, from untargeted GC-MS screening to accurate mass workflows with MS-TOF instruments, this collection ensures confidence in your spectral search results, even in the most in demanding applications.

- **Broad range of compounds** for targeted and non-targeted analyses for comprehensive analyses.
- **Spectral records contain additional information** that's searchable such as physical properties, structures, and DOIs when available to help narrow your results even further.
- Data is carefully curated and reviewed by Wiley's internal and external experts to ensure it meets quality standards for results you can rely on.
- Spectra are segmented into separate libraries, including excess replicate spectra, to enable robust searching across varied laboratory environments. The inclusion of replicates can aid in the recall of certain compounds across different laboratory settings and instruments.
- Take the guesswork out of instrument compatibility. Wiley Registry is available in the most common manufacturer formats.



Increase the speed and likelihood of MS identification with expanded coverage in the latest release of this trusted resource.

A foundational tool for any laboratory engaged in GC-MS analysis, this spectral library remains a lab standard, consistently evolving to meet the ever-growing research demands of today in our continued commitment to deliver relevant, quality data.

Available in the most common instrumentation manufacturer formats, this spectral library is a necessity for any laboratory engaged in GC-MS analysis.



LIBRARY SPECIFICATIONS

The Wiley Registry is now also available as a KnowltAll subscription for continued access to new data between major releases!

Data Type	# Spectra				
	Wiley Registry 2023	Wiley Registry Subscription			
GC-MS Spectra	873,300	913,300			
Searchable Structures	841,100	881,100			
Unique Compounds	741,000	771,400			
Estimated Retention Indices	738,400	772,600			



WHAT'S NEW IN THIS RELEASE

Be sure your lab is up to date with the latest release of this evolving collection. Take advantage of all the benefits in the 2023 release:

- Addition of over 50,000 unique compounds with over 56,000 spectra.
- Expanded coverage of world patents and peer reviewed literature, including DOIs of source articles. Data is also sourced from partner labs.
- Many spectra have been assigned a quality index, enabling searches to be tuned to exclude spectra below a quality index threshold.



APPLICATIONS

This collection offers exceptional reliability as a comprehensive resource for the analysis, identification, classification, and verification of compounds by mass spectrometry in a wide range of applications such as **environmental**, **forensics/toxicology**, **metabolomics**, **pharmaceutical**, **biotech**, **food/cosmetics**, **defense/homeland security**, and many more.



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 to give you a fuller picture of your results. Database records may include valuable details when available for a record such as:

- Chemical Structure
- Chemical Name
- Exact Mass
- Calculated Kovats RI values
- Splash IDs
- Wiley ID

- Formula
- InChl/InChlKey
- Molecular Weight
- Quality Index (QI)
- Digital Object Identifier (DOI)

And because it's searchable, you can use this information to narrow your results even further.



ABOUT THE AUTHORS

Originating through a collaboration by Drs. Einar August Stenhagen, Fred McLafferty, and Sixten Abrahamsson, the Wiley Registry pioneered the use of spectral data in mass spectrometry.

- Sixten Abrahamsson, a member of the Royal Swedish Academy of Sciences, was an x-ray crystallographer whose group studied structure and function of biologically active molecules.
- Fred McLafferty, a member of the National Academy of Sciences, was a leading light in mass spectrometry, known for top-down analysis and the McLafferty rearrangement.
- Einar Stenhagen, a member of the Royal Swedish Academy of Sciences, invented, with his wife, Stina Ställberg-Stenhagen, the jet separator, enabling the combination of gas and liquid chromatography with mass spectrometry.

Since 2009, the Wiley Registry has been maintained and updated by the Wiley Science Solutions data team.



STAY ON TOP OF THE LATEST DATA WITH A SUBSCRIPTION

The Wiley Registry is also now available as a KnowltAll subscription. Get early access to new data for continual impact on your laboratory workflow.

- **No need to wait until the next release for new Wiley Registry data!** Get access to spectral data as it's added to the Wiley Registry between releases.
- By adding a subscription to the KnowItAll software, you will also have access to one of the most powerful tools for automated non-targeted GC-MS analysis (deconvolution + library search), MS Adaptive Search for novel compounds, and more.



ACCELERATE YOUR WORKFLOW EVEN FURTHER

- More data with the Wiley Registry/NIST 2023 combined library.

 Comprehensive coverage with over 3 million spectra (includes EI and MS/MS data)
- Want to access even more data—plus powerful analysis tools—with KnowltAll Wiley MS Identification Pro + NIST bundles.

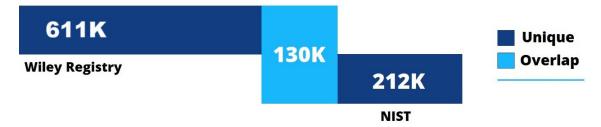
Product Version & Comparison Chart

Data Type	WR23 (2023)	WR Sub- scription	WR12 (2020)	WR11 (2017)	NIST23* (El Spectra)	NIST20* (El Spectra)	NIST17* (El Spectra)	WR23/NIST23* (El Spectra)
Mass Spectra	873,300	913,300	817,200	775,800	394,000	350,000	306,600	1,180,000
Searchable Structures	841,100	881,100	785,000	741,200	347,100	350,000	306,600	1,148,600
Unique Compounds	741,000	771,400	668,400	632,500	341,600	306,000	262,100	950,200

^{*} Note: Table above does not include MS/MS data counts from NIST and WR/NIST libraries. Wiley Registry/NIST El database counts = Wiley Registry and NIST, minus any overlap.

WR = Wiley Registry

Unique El Compound Comparison - Wiley Registry 2023 vs NIST





COMPATIBILITY

- Compatible with most common instrumentation manufacturer formats
- Also available as a subscription for use with the KnowltAll software, which supports multiple instrument vendor formats

For full compatibility information, please visit **sciencesolutions.wiley.com/ compatibility**



ORDERING INFORMATION

Wiley Registry of Mass Spectral Data 2023

USB: 9781119736325

DOWNLOAD: 978EALDB05697

Wiley Registry of Mass Spectral Data 2023 (Upgrade)

USB: 9781394198740

DOWNLOAD: 978EALDB05703

With a KnowltAll subscription, you get access to new Wiley Registry data as it's added in between releases.

Wiley Registry of Mass Spectral Data (Annual Subscription)
 978EALDB05482

Wiley Registry of Mass Spectral Data (Annual Subscription Renewal)
 978EALDB05499

Be sure to ask about KnowltAll MS Identification Pro + NIST bundles for access to even more spectra and tools.



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.

www.sciencesolutions.wiley.com/

Quality Data. Results You Can Rely On.

