



Mass Spectra of Flavors and Fragrances of Natural and Synthetic Compounds, 3rd Edition

Luigi Mondello

DVD

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DESCRIPTION

Advanced identification of natural and synthetic products using retention data

Flavors and Fragrances of Natural and Synthetic Compounds, 3rd Edition contains over 3,000 mass spectra, LRI retention data, calculated Kovats RI, and searchable chemical structures of compounds of interest for the flavors and fragrances industry. This innovative mass spectral library for natural and synthetic products makes the identification of unknown compounds in complex mixtures easier, faster, and more reliable.

Chromatographic information, such as Linear Retention Index (LRI) data, can be used to filter MS results, enabling more reliable peak assignment of components in complex mixtures. Mass spectra, relative to standard and well-known simple matrix components, were obtained and recorded through GC-MS separation/identification by Prof. Luigi Mondello. Additional component information such as CAS number, common name, CAS name, molecular weight, and chemical class are also included.

Library Specifications:

Spectra: 3,462

Chemical Structures: 3,462

Unique Compounds: 3,312

RI1 = measured on SLB-5MS (Hydro): 3,462

RI2 = measured on SLB-5MS (FAMES): 2,516

RI3 = measured on Supelcowax-10 (FAMES): 1,466 (same records as RI4)

RI4 = measured on Supelcowax-10 (FAEEs): 1,466 (same records as RI3)

RI5 = measured on Equity-1 (Hydro): 646

Compatibility:

Agilent ChemStation, MassHunter, OpenLab

Bruker MS Workstation

Chromatec Analytic

JEOL msFineAnalysis

LECO ChromaTOF

NIST MS Search

PerkinElmer TurboMass

Scion MS Workstation

Thermo Chromeleon, TraceFinder, Xcalibur

Waters MassLynx

Other versions available:

ACD/Labs ACD/Spectrus Processor*

Bio-Rad KnowItAll®*

Wiley Spectra Lab*

*Subscription required

A version in the Shimadzu GCMSsolution format is available directly from Shimadzu.

Compound Coverage:

Compound coverage can be searched at www.compoundsearch.com.

ABOUT THE AUTHOR

Professor Dr. Luigi Mondello is a prominent figure in the flavors and fragrances research industry as the author of *Mass Spectra of Pesticides with Retention Indices*, *Flavors and Fragrances of Natural and Synthetic Compounds*, and *FAMEs Fatty Acid Methyl Esters: Mass Spectral Database*, as well as the Editor of the *Journal of Separation Science* published by John Wiley & Sons and Editor in Chief of the *Journal of Essential Oil Research* published by Taylor & Francis. He received a degree in Chemistry from the University of Messina, Italy in 1991 and is now a Full Professor of Analytical Chemistry in the Department of Chemistry Science, Biological Science, Pharmaceutical Science and Environmental Science for the University. Prof. Mondello is currently the author of 292 scientific papers, 63 book chapters, and 25 reviews. His research interests include chromatography techniques and the advancement of coupled techniques such as LC-GC-MS, GC-GC, GCxGC, LCxLC, LCxGC and their applications in the study of natural and synthetic complex matrices.

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