

FFNSC 1.3 - Flavors and Fragrances of Natural and Synthetic Compounds - Mass Spectral Database (Nov 2008)

by Prof Luigi Mondello



This library contains 1831 mass spectra, LRI retention data, and searchable chemical structures of compounds of interest for the flavors and fragrances industry. Prepared by the Prof. Luigi Mondello under rigorous measurement conditions, the mass spectral library contains compounds central to flavor and fragrance research.

Coverage includes the most important flavors and fragrances compounds ([full list](#)).

Available in five manufacturer formats for use with most common mass spectrometry applications, FFNSC has an easy installation interface.

Applications: Industrial R&D and Quality Assurance: a high quality collection of natural and synthetic compounds for the flavors and fragrances industry critical for quality assurance, quality control, flavors and fragrance R&D, and competitive intelligence.

Contents

- **1831 compounds for flavors and fragrances research**
- Each record contains the mass spectrum, searchable structure, chemical information, and LRI retention data
- Records indexed by name, molecular weight, and retention time.
- Highly controlled: Measured on a single instrument in controlled conditions
- Quality samples sourced from leading suppliers and manufacturers
- Spectra not in NIST or Wiley Registry = 100%, Compounds not in NIST = 28%, Compounds not in Wiley Registry = 33%.
- Five Formats: (1) NIST MS Search, (2) Agilent Chemstation, (3) PerkinElmer TurboMass, (4) ThermoFisher Spectral ID, (5) Waters MassLynx. (Note: the Shimadzu format is not included--this is only available from Shimadzu.)

- Compatible with most manufacturer instruments, including Agilent, Bruker, JEOL, Leco, PerkinElmer, Thermo (XCalibur and Spectral ID), Varian, and Waters.
- One Disc: FFNSC 1.3

Compound List

A [Full list of compounds in the FFNSC libraries](#) is available as a searchable PDF.

About the author

Prof. Luigi Mondello is a leading figure in flavors and fragrances research, and is editor of the *Journal of Separation Science* and of *Flavour and Fragrance Journal*, both published by John Wiley & Sons and serves as a reviewer for 19 different Journals in the field of Analytical Chemistry and Food Chemistry.

Prof. Dr. Luigi Mondello is Professor at the Dipartimento Farmaco-chimico of the University of Messina, Italy. He received a degree in Chemistry from the University of Messina in 1991. Prof. Mondello teaches the course of Analytical Chemistry and of Food Chemistry at the School of Pharmacy of the University of Messina, and the course of Food Chemistry at the Campus Biomedico in Rome. He is the author of about 100 scientific papers, 13 book chapters, 2 reviews co-editor of a book on Multidimensional Chromatography (Wiley), and he has been chairman and invited lecturer in national and international congresses and meetings. His research interests include Chromatography techniques (HRGC, HPLC, HRGC/MS, HPLC/MS, OPLC) and the development of coupled techniques such as LC-GC-MS, GC-GC, Orthogonal GC, LC-LC and their applications in the study of natural complex matrices. Prof. Mondello has been member of the organizing committees of national and international meetings and he is permanent member of the scientific committee of the International Symposium on Capillary Chromatography held in Riva del Garda, Chairmen of the 35th International Symposium on Essential Oils, member of the Committee of the Italian Separation Science Group of the Italian Chemical Society, member of the advisory board of Journal of Separation Science and editor of Flavour and Fragrance Journal.

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