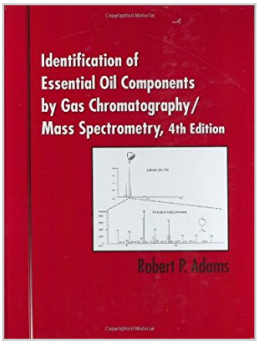

Identification of Essential Oil Components By Gas Chromatography/Mass Spectrometry, 4th Edition

By Robert P., Dr. Adams

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Since it is impossible to identify some terpenes by mass spectrum only, **the Adams library with retention times and Kovat's indices is the only terpene library that one can use to identify more than 95% of the components in common essentials oils with certainty.** A comprehensive collection of mass spectra and retention times of common components in plant essential oils, this reference covers 2,205 compounds, each including:

RT retention time on DB-5 capillary column
AI arithmetic retention index
KI Kovat's retention index
CAS# chemical abstracts service number
MF molecular formula
FW formula weight
MSD LIB# entry number in library
CN chemical name
List of synonyms
Source of compound used for spectrum. If the compound occurs in nature, two additional sources for the compound (concentration at % oil, plant name, literature reference) are included.
All 2,205 compounds have been analyzed from their original sources on an HP5971 MSD mass spectrometer using HP Chemstation software. In addition, the library (including retention times) is now available for the most common mass spectrometer/computer systems.

The 4th Edition now includes:

An additional 600 compounds
2,205 compounds analyzed from their original sources
Larger and easier to read mass spectra
Occurrence nature information
37% more content!

This is the fourth edition on mass spectra and retention times of common components in plant essential oils. It differs from the previous editions in several important areas: 600 compounds have been added, the sources of origination for each compound are listed, the mass spectra are larger and easier to read, occurrence nature information is now included and all 2,205 compounds have been analyzed from their original sources on an HP5971 MSD mass spectrometer using HP Chemstation software. In addition, the library (including retention times) is now available for the most common mass spectrometer/computer systems.

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Editorial Review

Review
The book is now twice the size of the third edition, and there are 600 additional spectra. This $125 increase represents a price of $0.20 per new spectrum. The total price of the book/electronic version of 2,200 spectra represents a price of less than $0.35 per spectrum, which includes the handsomely hard-bound version of the book. Compared to the price of several other boutique databases that have recently been made available, the Adam s library is a definite bargain. This collection should not fall into the category of being judged by its cover, it should be judged by the apparent quality of the spectra and coverage of the topic both of which are more than adequately met. Besides the spectra of the additional compounds, this edition of the Adam s library contains a lot more new information: the AI retention data, sources of the compounds, and retention times with the Cross Index of Names (Appendix IV).

If you are doing research in essential oils components or have to identify unknowns, Identification of Essential Oil Components by Gas Chromatography/Mass Spectrometry, 4th Edition, will be a valuable addition to your collection of resources, even if you have the third edition. --O. David Sparkman University of the PacificMass Spectrometry Facility

The Third edition of Dr Adam's book presents a very useful compilation of over 1600 mass spectra of terpenes, aliphatic esters, hydrocarbons, aromatics and other compounds encountered in natural products chemistry, especially the chemistry of essential oils. Not only are the mass spectra given but the compound's Retention Index on the commonly used DB-5 glc column are included. There are indices of the Retention Index arranged both alphabetically and in Retention Index order, making it a very practical tool for use in natural products research. I have found this work extremely useful in my work in natural products chemistry. --J J Brophy, University of New South Wales

A library may wish to purchase only the book, but a researcher should purchase the book/electronic version package. There has been an increase in price of $125 from the third to the fourth edition for the book and the book/electronic version. The book is now twice the size of the third edition, and there are 600 additional spectra. This $125 increase represents a price of $0.20 per new spectrum. The total price of the book/electronic version of 2,200 spectra represents a price of less than $0.35 per spectrum, which includes the handsomely hard-bound version of the book. Compared to the price of several other boutique databases that have recently been made available, the Adam s library is a definite bargain. This collection should not fall into the category of being judged by its cover, it should be judged by the apparent quality of the spectra and coverage of the topic both of which are more than adequately met. Besides the spectra of the additional compounds, this edition of the Adam s library contains a lot more new information: the AI retention data, sources of the compounds, and retention times with the Cross Index of Names (Appendix IV).

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Dr. Adams' book is an invaluable aid in the research and analysis of essential oils components. It explains and diagrams over 2,000 compounds that have been analyzed from the plant with mass spectrometry. Names are cross-indexed along with their synonyms. Adams is on the editorial boards of Journal of Essential Oil Research and Biochemical Systematics and Ecology and a Byalor University Professor. --Kathi Keville, AHA Editor, American Herb Association

About the Author
Dr. Robert P. Adams is a Professor at Baylor University. He has been studying essential oils of plants for over 40 years and has published over 180 peer reviewed journal articles and 10 technical books.

Dr. Adams obtained his Ph. D. in Botany/ Phytochemistry at the University of Texas in Austin in 1969 and has been on the faculties of Colorado State University and Hardin Simmons University. He served as the director of the Phytochemical Dept., Plant Resources Inc., Salt Lake City, Utah from 1981-1983. Dr. Adams is on the editorial boards of the J. Essential Oil Research and Biochemical Systematics and Ecology. Professional and Scientific Societies memberships include: Bot. Soc. Amer., Amer. Soc. Pl. Taxon.; Intrn'l Assoc. Pl. Taxon. (life); AAAS; Southwest Assoc. of Naturalists, Bot. Soc. Mex. (life), Intrn'l Soc. Chem. Ecol. (life).

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