



# Spectrometric Identification of Organic Compounds

*Editors* | Prof. Thomas Doughlas

# Spectrometric Identification Of Organic

**Silverstein,David Kiemle,Francis X.  
Webster**

## **Spectrometric Identification Of Organic:**

Spectrometric Identification of Organic Compounds Robert M. Silverstein, Francis X. Webster, David J. Kiemle, David L. Bryce, 2014-09-29 First published over 40 years ago this was the first text on the identification of organic compounds using spectroscopy This text presents a unified approach to the structure determination of organic compounds based largely on mass spectrometry infrared IR spectroscopy as well as multinuclear and multidimensional nuclear magnetic resonance NMR spectroscopy The key strength of this text is the extensive set of practice and real data problems in Chapters 7 and 8 Even professional chemists use these spectra as reference data Spectrometric Identification of Organic Compounds is written by and for organic chemists and emphasizes the synergistic effect resulting from the interplay of spectra This text is characterized by its problem solving approach with numerous practice problems and extensive reference charts and tables

SPECTROMETRIC IDENTIFICATION OF ORGANIC COMPOUNDS, 6TH ED Robert Silverstein & Francis Webster, 2006-09 Market\_Desc Organic and Analytical in the Forensics Chemical and Pharmaceutical Industries Special Features A how to hands on teaching manual Considerably expanded NMR coverage NMR spectra can now be interpreted in exquisite detail New chapters on correlation NMR spectrometry 2 D NMR and spectrometry of other important nuclei Uses a problem solving approach with extensive reference charts and tables An extensive set of real data problems offers a challenge to the practicing chemist About The Book The book provides a thorough introduction to the three areas of spectrometry most widely used in spectrometric identification mass spectrometry infrared spectrometry and nuclear

magnetic resonance spectrometry    **Spectrometric Identification of Organic Compounds** Robert M. Silverstein, G. Clayton Bassler, Terence C. Morrill, 1991-03-06 Teaches the use of the complementary information afforded by four types of

spectrometry for identification of organic compounds mass infrared nuclear magnetic resonance and ultra violet spectrometry Throughout the emphasis is on the relationship between chemical structure and spectral response of the molecule Each chapter includes problems to facilitate student comprehension and demonstrate practical aspects of the material Also provided are extensive reference material in charts and tables at the end of each chapter solved problems and 50 sets of Spectra of Compounds to be identified In addition to extensive updating the Fifth Edition includes a new chapter on New Dimensions in NMR Spectrometry    **Spectrometric Identification of Organic Compounds** Robert M.

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*Guide to Spectroscopic Identification of Organic Compounds* Karen Feinstein,2018-02-06 Guide to Spectroscopic Identification of Organic Compounds is a practical how to book with a general problem solving algorithm for determining the structure of a molecule from complementary spectra or spectral data obtained from MS IR NMR or UV spectrophotometers Representative compounds are analyzed and examples are solved Solutions are eclectic ranging from simple and straightforward to complex A picture of the relationship of structure to physical properties as well as to spectral features is provided Compounds and their derivatives structural isomers straight chain molecules and aromatics illustrate predominant features exhibited by different functional groups Practice problems are also included Guide to Spectroscopic Identification of Organic Compounds is a helpful and convenient tool for the analyst in interpreting organic spectra It may serve as a companion to any organic textbook or as a spectroscopy reference its size allows practitioners to carry it along when other tools might be cumbersome or expensive    **The Spectrometric Identification of Organic Compounds, Eighth Edition Evaluation Copy** Robert M. Silverstein,Francis X. Webster,David Kiemle,2014-12-10    *Spectroscopic Identification Of Organic Molecules* Mohamed Hilmy Elnagdi,Kamal Usef Sadek,Ramadan Ahmed H Mekheimer,2018-10-23 Researchers in the fields of organic synthesis pharmaceutical research as well as cosmetic and agrochemicals industries need to confirm the

structures of products they obtain This was previously a time consuming a process that took up much time Spectroscopic methods however made it easier and initially R and UV helped chemists conclude structures one way or another Initially 1D NMR 2D NMR and sophisticated NMR measurements like COESY and NOESY were of great assistance We demonstrate principles to conclude structures of our simple molecules mainly heterocycles of interest for researchers in fields indicated above However it is insufficient to only understand the principles and one should also master problem solving and thinking We demonstrate simple problems like the utility of coupling constants NOE COESY and NOESY and show how firm conclusions are obtained in real life Most NMR books usually demonstrate these principles utilizing a pit sophisticated examples The methodology suggested by us is simpler and quite useful for researchers in heterocyclic chemistry where combination of proton and carbon NMR should be dealt together Our research results previously been used intensively Cf citations in Google Scholar and still draw attention Students in the fields indicated will find this book of value to sign the spectra of the molecules they synthesize Researchers in the field of heterocyclic chemistry as well as instructors in the field of structure proof utilizing spectroscopic identification will also find this book of interest    **Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa** United States. Bureau of Mines. Technical Library, Pittsburgh,1968

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