



Spectrometric Identification of Organic Compounds

Editors | Prof. Thomas Douglas

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Spectrometric Identification Of Organic

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



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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

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The Spectrometric Identification of Organic Compounds, Eighth Edition

Wiley E-Text Student Package Silverstein, David Kiemle, Francis X. Webster, 2014-11-21 Spectrometric Identification of Organic Compounds Robert Milton Silverstein, 1955 **Spectrometric Identification of Organic Compounds** Silverstein R.M., 1981 Spectrometric Identification of Organic Compounds Robert Milton Silverstein, G. Clayton Bassler, 1967

Spectrometric Identification of Organic Compounds. 3rd Ed R. M. Silverstein, T. C. Morrill, G. C. Bassler, 1974

Spectrometric identification of organic compounds Robert Milton Silverstein, 1963 *The Spectrometric Identification of Organic Compounds, Eighth Edition Wiley E-Text Reg Card* Silverstein, 2014-10-22 *Spectrometric Identification of Organic Compounds* Robert Milton SILVERSTEIN (and BASSLER (Gerald Clayton)), 1963 Undergraduate Instrumental Analysis, Sixth Edition James W. Robinson, Eileen M. Skelly Frame, George M. Frame II, 2004-12-02 Completely rewritten revised and updated this Sixth Edition reflects the latest technologies and applications in spectroscopy mass spectrometry and chromatography It illustrates practices and methods specific to each major chemical analytical technique while showcasing innovations and trends currently impacting the field Many of the chapters have been individually reviewed by teaching professors and include descriptions of the fundamental principles underlying each technique demonstrations of the instrumentation and new problem sets and suggested experiments appropriate to the topic About the authors JAMES W ROBINSON is Professor Emeritus of Chemistry Louisiana State University Baton Rouge A Fellow of the Royal Chemical Society he is the author of over 200 professional papers and book chapters and several books including Atomic Absorption Spectroscopy and Atomic Spectroscopy He was Executive Editor of Spectroscopy Letters and the Journal of Environmental Science and Health both titles Marcel Dekker Inc and the Handbook of Spectroscopy and the Practical Handbook of Spectroscopy both titles CRC Press He received the B Sc 1949 Ph D 1952 and D Sc 1978 degrees from the University of Birmingham England EILEEN M SKELLY FRAME recently was Clinical Assistant Professor and Visiting Research Professor Rensselaer Polytechnic Institute Troy New York Dr Skelly Frame has extensive practical experience in the use of instrumental analysis to characterize a wide variety of substances from biological samples and cosmetics to high temperature superconductors polymers metals and alloys Her industrial career includes supervisory roles at GE Corporate Research and Development Stauffer Chemical Corporate R D and the Research Triangle Institute She is a member of the American Chemical Society the Society for Applied Spectroscopy and the American Society for Testing and Materials Dr Skelly Frame received the B S degree in chemistry from Drexel University Philadelphia Pennsylvania and the Ph D in analytical chemistry from Louisiana State University Baton Rouge GEORGE M FRAME II is Scientific Director Chemical Biomonitoring Section of the Wadsworth Laboratory New York State Department of Health Albany He has a wide range of experience in the field and has worked at the GE Corporate R D Center Pfizer Central Research the U S Coast Guard R D Center the Maine Medical Center and the USAF Biomedical Sciences Corps He is an American Chemical Society member Dr Frame received the B A degree in chemistry from Harvard College Cambridge Massachusetts and the Ph D degree in analytical chemistry from

Rutgers University New Brunswick New Jersey Spectrometric Identification of Organic Compounds Robert Milton Silverstein, Francis X. Webster, 1998 This book is characterized by its problem solving approach with extensive reference charts and tables First published in 1962 this was the first book on the identification of organic compounds using spectroscopy Now considered a classic it can be found on the shelf of every Organic Chemist The key strength of this text is the extensive set of real data problems in Chapters 8 and 9 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 the spectra *An Introduction to Spectroscopic Methods for the Identification of Organic Compounds* F. Scheinmann, 2013-10-22 An Introduction to Spectroscopic Methods for the Identification of Organic Compounds Volume 2 covers the theoretical aspects and some applications of certain spectroscopic methods for organic compound identification This book is composed of 10 chapters and begins with an introduction to the structure determination from mass spectra The subsequent chapter presents some mass spectrometry seminar problems and answers This presentation is followed by discussions on the problems concerning the application of UV spectroscopy and electron spin resonance spectroscopy Other chapters deal with some advances and development in NMR spectroscopy and the elucidation of structural formula of organic compounds by a combination of spectral methods The final chapter surveys seminar problems and answers in the identification of organic compounds using NMR IR UV and mass spectroscopy This book will prove useful to organic and analytical chemists Spectrometric Identification of Organic Compounds [By] Robert M. Silverstein, G. Clayton Bassler [And] Terence C. Morrill Robert Milton Silverstein, Terence C. Morrill, G. Clayton Bassler, 1974 *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 IR 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

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