Spectrometric Identification of Organic Compounds

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Spectrometric Identification Of Organic

Robert M. Silverstein,Francis X. Webster,David Kiemle

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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 Robert M. Silverstein,G. Clayton Bassler,Terence C. Morrill,1981-03-10 Teaches identification of organic compounds from complementary information concerning the following spectra mass infrared proton NMR 13C NMR and UV Covers each area of spectrometry demonstrates the integration of all information in structure elucidation and presents sets of spectra for solution Includes extensive reference tables and charts

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,Francis X. Webster,David J. Kiemle,2005-01-14 This 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 Midwest 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,Francis X. Webster,2000 *Spectrometric Identification of Organic Compounds* Robert M. 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 **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,G. Clayton Bassler,1967 **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 Spectrometric Identification Organic Compounds Robert Milton Silverstein,1955 **Spectrometric Identification of Organic Compounds** Silverstein RM.,1981 Spectrometric identification of organic compounds Robert Milton Silverstein,1963 **Spectrometric Identification of Organic Compounds** Robert Milton SILVERSTEIN (and BASSLER (Gerald Clayton)),1963 **Spectrometric Identification of Organic Compounds. 3rd Ed** R. M. Silverstein,T. C. Morrill,G. C. Bassler,1974 Spectra Interpretation of Organic Compounds Ernö Pretsch,1997 A unique advanced textbook on spectroscopy This interactive tutorial presents text software and data in a state of the art introduction to the interpretation of 13C and 1H nuclear magnetic resonance infrared mass and UV VIS spectra Designed as a hands on guide the newcomer or student learns not only by reading but by experimenting using the powerful software tools and data provided on the accompanying CD ROM The software based on the outstanding SpecTool product enables you to learn how to interpret molecular spectra correctly rapidly and easily Moreover you can check your progress by working through the examples embedded in this self study course that demonstrate how to identify an organic compound and to elucidate its structure All the material and software presented are the essence of the two authors longstanding teaching experience

Organic Spectroscopy Jag Mohan,2004 Written primarily to stimulate the interest of students in spectroscopy and make them aware of the latest developments in this field this book begins with a general introduction to electromagnetic radiation and molecular spectroscopy In addition to the usual topics on IR UV NMR and mass spectrometry it includes substantial material on the currently useful techniques such as FT IR FT NMR superscript 13 C NMR 2D NMR GC MS FAB MS Tendem and negative ion mass spectrometry for students engaged in advanced studies Finally it gives a detailed account on optical rotatory dispersion ORD and circular dichroism CD Through the format evolved in the first edition remains intact relevant new additions have been inserted at the appropriate places in various chapters of the book Also included are a number of sample and study problems at the end of each chapter to illustrate the approach to problem solving that involve translations of sets of spectra into chemical structures BOOK JACKET Organic Spectroscopy Lal Dhar Singh Yadav,2013-08-30 Organic Spectroscopy presents the derivation of structural information from UV IR Raman 1H NMR 13C NMR Mass and ESR spectral data in such a way that stimulates interest of students and researchers alike The application of spectroscopy for structure determination and analysis has seen phenomenal growth and is now an integral part of Organic Chemistry courses This book provides A logical comprehensive lucid and accurate presentation thus making it easy to understand even through

self study Theoretical aspects of spectral techniques necessary for the interpretation of spectra Salient features of instrumentation involved in spectroscopic methods Useful spectral data in the form of tables charts and figures Examples of spectra to familiarize the reader Many varied problems to help build competence ad confidence A separate chapter on spectroscopic solutions of structural problems to emphasize the utility of spectroscopy Organic Spectroscopy is an invaluable reference for the interpretation of various spectra It can be used as a basic text for undergraduate and postgraduate students of spectroscopy as well as a practical resource by research chemists The book will be of interest to chemists and analysts in academia and industry especially those engaged in the synthesis and analysis of organic compounds including drugs drug intermediates agrochemicals polymers and dyes *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 *The Spectrometric Identification of Organic Compounds, Eighth Edition Evaluation Copy* Robert M. Silverstein,Francis X. Webster,David Kiemle,2014-12-10

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