



Spectrometric Identification of Organic Compounds

Editors | Prof. Thomas Douglas

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Spectrometric Identification Of Organic

**Robert M. Silverstein, G. Clayton
Bassler, Terence C. Morrill**



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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

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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

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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

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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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