

Silverstein Spectrometric Identification Organic Compounds Answer Key

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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

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

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

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

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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

organic spectroscopic structure determination is a sophomore level book with emphasis on structure problem solving it consists of four sections that attempt to engage the imagination of the student taber has arranged the material in such a way that the students can work the problems and learn the procedures on their own minimizing the time taken in lecture the first section contains three chapters of instruction on the methods of organic spectroscopy the second contains fifty problems with just data sets of spectroscopic data the third section is comprised of fifty problems that show starting materials and reaction conditions with spectroscopic data for the product the final section includes tables of spectroscopic data

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