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4th, revised and enlarged edition



Spectral Data For Structure Determination Of Organic Compounds

Keith A. Nier, Alfred L. Yergey, P. Jane Gale

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Tables of Spectral Data for Structure Determination of Organic Compounds Ernö Pretsch, T. Clerc, J. Seibl, W. Simon, 2013-06-29 Although numerical data are in principle universal the compilations presented in this book are extensively annotated and interleaved with text This translation of the second German edition has been prepared to facilitate the use of this work with all its valuable detail by the large community of English speaking scientists Translation has also provided an opportunity to correct and revise the text and to update the nomenclature Fortunately spectroscopic data and their relationship with structure do not change much with time so one can predict that this book will for a long period of time continue to be very useful to organic chemists involved in the identification of organic compounds or the elucidation of their structure Klaus Biemann Cambridge MA April 1983 Preface to the First German Edition Making use of the information provided by various spectroscopic tech niques has become a matter of routine for the analytically oriented organic chemist Those who have graduated recently received extensive training in these techniques as part of the curriculum while their older colleagues learned to use these methods by necessity One can therefore assume that chemists are well versed in the proper choice of the methods suitable for the solution of a particular problem and to translate the experimental data into structural information

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Structure Determination of Organic Compounds Ernö Pretsch, Philippe Bühlmann, Martin Badertscher, 2009-04-05 This succinct compilation of essential reference data for the interpretation of NMR IR UV Vis and mass spectra also provides a hands on guide for interpreting experimental spectral data and elucidating the structure of the respective compounds behind them This fourth edition of the highly successful and concise textbook contains about 20% new data Structure **Determination of Organic Compounds** Ernö Pretsch, Philippe Bühlmann, Christian Affolter, 2000 **Structure Determination of Organic Compounds** E. Pretsch, P. Bühlmann, C. Affolter, 2013-03-09 While modem techniques of nuclear magnetic resonance and mass spectrometry changed the ways of data acquisition and greatly extended the capabilities of these methods the basic parameters such as chemical shifts coupling constants and fragmentation pathways remain the same This explains the ongoing success of the earlier editions of this book However since the amount of available data has considerably increased over the years we decided to prepare an entirely new manuscript It follows the same basic concepts i e it provides a representative albeit limited set of reference data for the interpretation of 13C NMR 1 H NMR IR mass and UV Nis spectra On the other hand the book has undergone a number of changes The amount of reference data has been doubled at least especially for MS and IR and the order and selection of data for the various spectroscopic methods is now arranged strictly in the same way In addition the enclosed compact disc contains programs for estimating NMR chemical shifts and generating isomers based on structural information Unfortunately our teachers and colleagues Prof Wilhelm Simon and Prof Thomas Clerc are no longer among us and Prof Joseph Seibl has retired years ago Their contributions to developing

the concept and the earlier editions of this work cannot be overemphasized We also thank numerous colleagues who helped us in many different ways to complete the manuscript Weare particularly indebted to Dr Structure Determination Of Organic Compounds: Tables Of Spectral Data, 3E (With Cd) Pretsch, 2005-01-01 Structure Determination of Organic Compounds Ernö Pretsch, Philippe Bühlmann, Martin Badertscher, 2020-11-23 This succinct compilation of essential reference data for the interpretation of NMR IR UV Vis and mass spectra also provides a hands on guide for interpreting experimental spectral data and elucidating the structure of the respective compounds behind them This fourth edition of the highly **Structure Determination By Spectroscopic Methods** successful and concise textbook contains about 20% new data Raul SanMartin, Maria Teresa Herrero, 2020-11-26 The authors travel with the reader through the challenging maze of structure determination showing how to distinguish between valuable and deceiving data from IR NMR and MS spectra extracting structural conclusions and putting all the pieces together to solve the structure elucidation puzzle Indeed human reasoning is key to combining the information contained in those bands signals and peaks by a rationale that enables the makeup of a chemical structure A number of increasingly more complex problems will act as trip segments and in addition to the spectra themselves each chapter is supplemented with figures and tables that decipher the above data and serve as maps for the journey Organic Structures from Spectra L. D. Field, H. L. Li, A. M. Magill, 2020-06-08 The derivation of structural information from spectroscopic data is now an integral part of organic chemistry courses at all Universities A critical part of any such course is a suitable set of problems to develop the students understanding of how organic structures are determined from spectra The book builds on the very successful teaching philosophy of learning by hands on problem solving carefully graded examples build confidence and develop and consolidate a student's understanding of organic spectroscopy Organic Structures from Spectra 6th Edition is a carefully chosen set of about 250 structural problems employing the major modern spectroscopic techniques including Mass Spectrometry 1D and 2D 13C and 1H NMR Spectroscopy and Infrared Spectroscopy There are 25 problems specifically dealing with the interpretation of spin spin coupling in proton NMR spectra and 10 problems based on the quantitative analysis of mixtures using proton and carbon NMR spectroscopy The accompanying text is descriptive and only explains the underlying theory at a level that is sufficient to tackle the problems The text includes condensed tables of characteristic spectral properties covering the frequently encountered functional groups The examples themselves have been selected to include all important structural features and to emphasise connectivity arguments and stereochemistry Many of the compounds were synthesised specifically for this book In this collection there are many additional easy problems designed to build confidence and to demonstrate basic principles The Sixth Edition of this popular textbook now incorporates many new problems using 2D NMR spectra C H Correlation spectroscopy HMBC COSY NOESY and TOCSY has been expanded and updated to reflect the new developments in NMR spectroscopy has an additional 40 carefully selected basic problems provides a set of problems dealing specifically with the

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elucidation are solved by using NMR Spectroscopic Methods in Organic Chemistry Ian Fleming, Dudley Williams, 2020-01-17 This book is a well established guide to the interpretation of the mass ultraviolet infrared and nuclear magnetic resonance spectra of organic compounds It is designed for students of organic chemistry taking a course in the application of these techniques to structure determination The text also remains useful as a source of data for organic chemists to keep on their desks throughout their career In the seventh edition substantial portions of the text have been revised reflecting knowledge gained during the author's teaching experience over the last seven years The chapter on NMR has been divided into two separate chapters covering the 1D and 2D experiments The discussion is also expanded to include accounts of the physics at a relatively simple level following the development of the magnetization vectors as each pulse sequence is introduced The emphasis on the uses of NMR spectroscopy in structure determination is retained Worked examples and problem sets are included on a chapter level to allow students to practise their skills by determining the chemical structures of unknown compounds

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