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Data Series

# **Spectral Data for Steroids**

Edited by  
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**K. N. Marsh**

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# Spectral Data For Steroids

**Viqar Uddin Ahmad, Anwer Basha**

A red circular graphic element with a gradient, partially visible on the right side of the slide, overlapping the grey bar.

## **Spectral Data For Steroids:**

Spectral Data for Steroids Michael Frenkel, K N Marsh, 1994-06-15 Spectral Data for Steroids provides a comprehensive compilation of spectral data for 211 steroids The compounds are arranged on the basis of their molecular structures

**Spectroscopic Data of Steroid Glycosides** Viqar Uddin Ahmad, Anwer Basha, 2010-05-07 This book is an essential reference guide to spectroscopic physical and biological activity data of over 3500 steroid glycosides offering the structures and the data of the naturally occurring glycosides of steroids All compounds are arranged according to the structure of the aglycone and in its own class by the increasing molecular weight making Spectroscopic Data of Steroid Glycosides extremely useful for the structure elucidation of new natural products particularly glycosides Spectroscopic Data of Steroid Glycosides Anwer Basha, Viqar Uddin Ahmad, 2010-03-10 Spectroscopic Data of Steroid Glycosides serves as an essential reference guide containing spectroscopic physical and biological activity data of over 3500 steroid glycosides offering the structures and the data of the naturally occurring glycosides of steroids All compounds are arranged according to the structure of the aglycone and in its own class according to the increasing molecular weight making Spectroscopic Data of Steroid Glycosides extremely useful for the structure elucidation of new natural products particularly glycosides

Spectroscopic Data of Steroid Glycosides offers a practical desk reference for all scientists and students interested in steroid glycosides and their biological and medicinal importance The following data of the steroid glycosides as available in published literature are included Name of the compound Chemical name of compound and its structure Source name of the genus species authors family of the biological source from which the glycoside has been isolated Melting point Specific rotation Molecule weight Molecular formula UV spectral data maxima  $\epsilon$  or  $\log \epsilon$  solvent IR peaks in  $\text{cm}^{-1}$  with medium in which the spectrum was taken  $\epsilon$  g KBr nujol etc Proton magnetic resonance PMR chemical shifts multiplicity of the peaks coupling constants with assignments  $^{13}\text{C}$  NMR CMR chemical shifts with assignments Mass spectral data with the technique used  $\epsilon$  g Electron Impact E I Fast Atom Bombardment FAB positive ion or negative ion mode or any other technique CD or ORD data Biological Activity Full reference from which data have been taken **Spectroscopic Data of Steroid Glycosides: Spirostanes, Bufanolides, Cardenolides** Viqar Uddin Ahmad, Anwer Basha, 2010-06-27 Spectroscopic Data of Steroid Glycosides serves as an essential reference guide containing spectroscopic physical and biological activity data of over 3500 steroid glycosides offering the structures and the data of the naturally occurring glycosides of steroids All compounds are arranged according to the structure of the aglycone and in its own class according to the increasing molecular weight making Spectroscopic Data of Steroid Glycosides extremely useful for the structure elucidation of new natural products particularly glycosides Spectroscopic Data of Steroid Glycosides offers a practical desk reference for all scientists and students interested in steroid glycosides and their biological and medicinal importance The following data of the steroid glycosides as available in published literature are included Name of the compound Chemical name of compound

and its structure Source name of the genus species authors family of the biological source from which the glycoside has been isolated Melting point Specific rotation Molecule weight Molecular formula UV spectral data maxima  $\epsilon$  or  $\log \epsilon$  solvent IR peaks in  $\text{cm}^{-1}$  with medium in which the spectrum was taken e.g. KBr nujol etc Proton magnetic resonance PMR chemical shifts multiplicity of the peaks coupling constants with assignments  $^{13}\text{C}$  NMR CMR chemical shifts with assignments Mass spectral data with the technique used e.g. Electron Impact E I Fast Atom Bombardment FAB positive ion or negative ion mode or any other technique CD or ORD data Biological Activity Full reference from which data have been taken Analysis of Sterols J. Goad, T. Akihisa, 2012-12-06 Knowledge is of two kinds We know a subject ourselves or we know where we can find information on it Samuel Johnson 18 April 1775 Sterols are among the most studied groups of natural products with interest commencing in the 19th century and running to the present Investigations have embraced the refinement of separation procedures the development of new analytical techniques and instrumentation for structure elucidation the unravelling of biosynthetic mechanisms the determination of the physiological functions of sterols and the role they play in health and disease In the past 20-30 years interest in the medical implications of sterol biochemistry studies on the sterols of plants algae and fungi and the identification of the many unusual sterols from marine organisms have proceeded in parallel and somewhat independently Although the motivation and goals for the various lines of investigation have differed widely the researchers working in each of these areas have contributed a wealth of knowledge to the literature relating to the analysis of sterols and many diverse new sterols have been discovered We conceived this book as a modest attempt to bring together some of this literature in the hope that it may be helpful to newcomers to sterol research We had originally intended to produce a handbook outlining in detail the protocols to be followed for sterol extraction chromatography NMR analysis etc in order to identify the components of a sterol mixture **Analysis of Marine Samples in Search of Bioactive Compounds**, 2014-08-26 Seas and oceans offer a wide range of temperature pressure light and chemical conditions thus allowing a wide diversity of marine organisms from shallow coastal waters to the deep ocean These resources can be used to obtain new products and develop services and in turn help to provide solutions to the challenges that affect our planet including offering a sustainable supply of food and energy new industrial materials and processes new bioactive compounds and new health treatments Marine compounds have been identified as having antibacterial anticoagulant antifungal antimalarial antiprotozoal antituberculosis and antiviral activities The major sources of these bioactive compounds are marine sponges coelenterates and microorganisms followed by algae echinoderms tunicates molluscs and bryozoans The discovery of bioactive compounds from marine samples is a hot topic considering the current need for sustainable use of marine resources This book is a comprehensive overview of the analytical techniques employed in the discovery and characterization of bioactive compounds isolated from all possible marine samples and gives future perspectives of analytical methodologies This overview includes an assessment of the sampling and preparation of extracts the separation and isolation of bioactive

compounds their structural characterization and the application of bioassays in the discovery of bioactive compounds

Comprehensive coverage of analytical techniques and applications  
Clear diagrams to adequately support important topics  
Real examples of applications of analytical techniques in the search for new bioactive compounds

**Annual Reports on NMR Spectroscopy** Graham A. Webb, 2012-10-05 Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules In recent years no other technique has gained such significance as NMR spectroscopy It is used in all branches of science in which precise structural determination is required and in which the nature of interactions and reactions in solution is being studied Annual Reports on NMR Spectroscopy has established itself as a premier means for the specialist and non specialist alike to become familiar with new techniques and applications of NMR spectroscopy

*Modern Methods of Steroid Analysis* Erich Heftmann, 2012-12-02 Modern Methods of Steroid Analysis reviews modern methods of steroid analysis such as liquid column chromatography mass spectrometry and gas chromatography Topics covered include qualitative and quantitative analysis of plant sterols by gas liquid chromatography Raman spectroscopy of steroids nuclear magnetic resonance and applications of lanthanide shift reagents A computerized method for rapid comparison and retrieval of infrared spectral data is also described This volume is comprised of 22 chapters and begins with an analysis of hormonal steroids using liquid column chromatography followed by a discussion on the separation of insect molting hormones using high pressure liquid chromatography The reader is methodically introduced to the application of gradient elution and thin layer chromatography to the analysis of corticosteroids and 17 ketosteroids as well as some aspects of mass spectrometry in steroid analysis Subsequent chapters explore other methods such as optical rotatory dispersion and circular dichroism along with radioisotope techniques In particular the radioimmunoassay of plasma steroid hormones and plasma aldosterone is considered This book should be of interest to biochemists

Molecular Structure and Biological Activity of Steroids Martin Bohl, 2018-01-18 Molecular Structure and Biological Activity of Steroids focuses on the identification of steroid structural features that control particular biological effects Steroid geometry plays a critical role in steroid activity therefore the results of X ray crystallographic NMR spectroscopic and theoretical studies on structure activity relationships form an integral part of the book Well established observations and proposed models are presented summarizing knowledge of molecular features e g steroid backbone structures side chain constitutions substitution sites configurations hydrogen bonding patterns that can affect steroid action The book also provides overviews about recent progress in various frontier fields of steroid research including such areas as sex steroids glucocorticoids aromatase inhibitors vitamin D metabolites brassinosteroids neuromuscular blocking agents and cardiostonic steroids Molecular Structure and Biological Activity of Steroids is a must have resource for biochemists pharmacologists endocrinologists biophysicists and others actively involved in steroid research

*Steroids and their Medicinal Potential* Abid Hussain Banday, 2023-07-18 Steroids are an important class of biomolecules with diverse roles and functions Besides being important as structural and signaling molecules these molecules hold promise against numerous disorders including cardiovascular conditions cancer inflammation and autoimmune disorders Many investigations have demonstrated that steroidal frameworks may provide lipid solubility receptor selectivity or membrane binding properties to non steroidal pharmacophores However the therapeutic use of steroids can be dangerous when they are used incorrectly Additionally misconceptions about steroids among athletes or recreational users can lead to steroid abuse and poor health outcomes *Steroids and their Medicinal Potential* discusses the classification distribution biosynthesis chemical synthesis and semi synthesis of different steroids The medicinal potential of each class is exhaustively discussed in different chapters The latest advances and developments in steroid based drug discovery are also discussed thoroughly The book aims to address general questions and concerns about steroids providing readers with a useful resource on the subject

**Key Features** Provides comprehensive coverage on all aspects of steroids including steroid chemistry biochemistry medicinal potential drug discovery and advances in target binding interactions of steroid based drugs Includes chapters dedicated to anabolic steroids and their abuse Designed as an accessible source of information for understanding steroidal drugs with structured chapters Includes references for advanced readers

*Quantitative Analysis of Steroids* S. Görög, 2012-12-02 *Studies in Analytical Chemistry Volume 5* *Quantitative Analysis of Steroids* covers the pharmaceutical aspects of the analysis of steroid hormones This book is divided into nine chapters that examine the biological clinical analysis of other important groups of steroids including sterols vitamin D bile acids cardiac glycosides and sapogenins The material in the book is classified according to the main groups of steroids individual chapters being devoted to sex hormones corticosteroids sterols vitamins D bile acids cardiac glycosides sapogenins and miscellaneous steroids The structure of each chapter is the same In section 1 the fundamentals of the chemistry of the group of steroids in question are outlined Section 2 provides a detailed description of the use of various spectroscopic chromatographic protein binding and other methods while Section 3 deals with the main problems encountered in the analysis of the group of steroids in question and with their solution using the methods described in Section 2 This book will prove useful to steroid and analytical chemists

*Physical Properties of the Steroid Hormones* Lewis L. Engel, 2013-10-22 *Pure and Applied Biology Volume 3* *Physical Properties of the Steroid Hormones* illustrates the efficiency of methodology for the solution of problems of isolation identification and quantitative determination of the physical properties of steroids This volume is composed of five chapters and begins with a survey of the factors that influence the partition coefficient of steroid hormone along with the consideration of the types and preparation of solvent systems for determination The next chapter describes the chromatographic mobilities of steroids using several chromatographic methods such as paper chromatography A chapter presents the ultraviolet absorption data on structural correlations of steroids Another chapter highlights the conversion of a steroid into a fluorescent compound through the

steroid acid interaction mechanism The final chapter deals with the selective absorption spectra of steroids in concentrated sulfuric acid without heating This book is directed primarily toward steroid chemists and researchers

**Recent Developments in Mass Spectrometry in Biochemistry and Medicine** Alberto Frigerio, 2012-12-06 The Place of Mass Spectrometry in Drug Metabolism Studies In vitro and in Vivo Studies on the Metabolism of Dibenzo c f 1 2 Diazepine Gas Chromatographic Mass Spectrometric Identification of Urinary Metabolites of Propildazine in Rat Mass Spectrometric Characterization of Sydnocarb and its Major Metabolites in Rat Metabolism of an Aryloxy Beta Blocking Drug Isolation and Identification of the Chloroform Soluble Urinary Metabolites of Suloctidil in Man Are Stable Sulfenic Acids Possible Metabolites of Suloctidil The Electron Impact Fragmentation of Products Related to N A *A Guide to the Published Collections of Spectral Data Held by the SRL Science Reference Library (British Library)*, Christine L. De Hamel, 1983

Bioactive Natural Products (Part E) Atta-ur Rahman, 1995-01-27 Bioactive Natural Products Part E *Bibliography of Mass Spectroscopy Literature for 1970 ,1972* *Mass Spectra and GC Data of Steroids* Hugh L. J. Makin, David James Hamilton Trafford, Joanna Nolan, 1998 This is the most comprehensive collection of mass spectral data for steroids available today It contains some 2 500 newly measured EI mass spectra of androgens and estrogens and their derivatives trimethylsilyl ethers O methyloximes and acetates Each spectrum is accompanied by the structure systematic and trivial names retention index molecular formula molar mass CAS number and sample source of the steroid with all data obtained using the same mass spectrometer under identical chromatographic and mass spectrometric conditions Steroids are of considerable therapeutic importance and the collection will thus be of particular interest to the pharmaceutical industry as well as an invaluable data source for chemists and biochemists involved in drug development drug screening and clinical toxicology endocrinologists natural products chemists and mass spectroscopists *Autism Spectrum Disorder* Christopher McDougale, 2016-01-22 The Primer on Autism Spectrum Disorder provides a quick yet comprehensive overview of clinically relevant topics related to autism spectrum disorder ASD for the medical or mental health student trainee or recent graduate who seeks efficient learning Aspects of diagnosis etiology treatment and care delivery systems are covered by leading experts Clinical vignettes highlighted Key Points and illustrative photos figures and tables are used to enhance the learning experience for the reader 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

Modern NMR Approaches to the Structure Elucidation of Natural Products Antony Williams, Gary Martin, David Rovnyak, 2016-12-12

The Ghanian plant *Cryptolepis sanguinolenta* is the source of a series of fascinating indoloquinoline alkaloids The most unusual member of this alkaloid series was initially proposed to be a spiro nonacyclic structure named cryptospirolepine and was elucidated in 1993 based on the technologies available at that time There were however several annoying attributes to the structure that bothered analysts for the ensuing 22 years During the two decades that followed the initial work there have been enormous developments in NMR technology Using new experimental approaches specifically homodecoupled  $1\ 1$  and  $1\ n$  HD ADEQUATE NMR experiments developed in 2014 the structure of only a 700 g sample of cryptospirolepine has been revised and is shown on the cover of this volume The confluence of the NMR technological and methodological advances that allowed the revision of the structure of cryptospirolepine using a submilligram sample seems a fitting example for this book which is dedicated to the NMR characterization of various classes of natural products

Volume 2 considers data processing and algorithmic based analyses tailored to natural product structure elucidation and reviews the application of NMR to the analysis of a series of different natural product families including marine natural products terpenes steroids alkaloids and carbohydrates

Volume 1 discusses contemporary NMR approaches including optimized and future hardware and experimental approaches to obtain both the highest quality and most appropriate spectral data for analysis

These books bringing together acknowledged experts uniquely focus on the combination of experimental approaches and modern hardware and software applied to the structure elucidation of natural products

The volumes will be an essential resource for NMR spectroscopists natural product chemists and industrial researchers working on natural product analysis or the characterization of impurities and degradation products of pharmaceuticals that can be as scarce as natural product samples

## Whispering the Strategies of Language: An Mental Journey through **Spectral Data For Steroids**

In a digitally-driven earth where screens reign supreme and quick conversation drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within phrases usually get unheard. However, situated within the pages of **Spectral Data For Steroids** a fascinating fictional prize sporting with fresh thoughts, lies a fantastic journey waiting to be undertaken. Published by a talented wordsmith, this enchanting opus attracts readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles cloth of each word. Within the emotional depths of this poignant evaluation, we shall embark upon a heartfelt exploration of the book is key styles, dissect its fascinating publishing type, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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