

Monosaccharides

Their Chemistry and Their Roles
in Natural Products



Peter Collins - Robin Ferrier



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Monosaccharides Their Chemistry And Their Roles In Natural Products

P. M. Collins, Robert J. Ferrier



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Monosaccharides P. M. Collins, Robert J. Ferrier, 1995-07-05 Monosaccharides Their Chemistry and Their Roles in Natural Products Peter Collins University of London UK Robin Ferrier Victoria University of Wellington NZ An in depth text for students starting their study of carbohydrate chemistry Monosaccharides relates the vast field of carbohydrate chemistry to both synthetic organic chemistry and biological processes The structures and reactions of monosaccharides are examined in detail and their applications in synthesis and as biologically active compounds are discussed and explained at length This textbook written by two well known experienced teachers and researchers in carbohydrate chemistry provides up to date coverage of this rapidly expanding and developing field classification of monosaccharide reactions according to reaction site treatment of monosaccharides as organic compounds with rationalized chemistry more than 1000 references to the primary literature a discussion of monosaccharides as components of biologically active compounds Monosaccharides will be invaluable for students and lecturers alike in organic bioorganic and natural products chemistry biochemistry glycobiology and molecular biology

Carbohydrates Robert V. Stick, 2001-03-13 Addresses the field of carbohydrates from theoretical mechanistic and practical points of view topics covered include synthesis and protecting groups reactions of monosaccharides synthesis of the glycosidic linkage synthesis of oligosaccharides polysaccharides and glycoconjugates

Pharmaceutical Chemistry of Natural Products V. Alagarsamy, 2012-09-19 Salient Features Logical and concise presentation of content as per the needs of the students Incorporation of all chemical and pharmaceutical aspects of the natural products Systematic and consistent organization of chapters overview nomenclature classification qualitative chemical tests and general physical and chemical properties Detailed discussion on pharmaceutically important natural products with the source pharmacological properties and uses along with their general properties Interesting and user friendly presentation of pharmacological action to help the students quickly recapitulate the action of the drug Simplified presentation of structural elucidation along with structures of compounds which helps to reproduce well in examinations Structure activity relationship SAR of some important groups of natural products e g estrogens progesterones penicillins etc Comprehensive coverage of syllabi of all the major Indian universities AICTE and the PCI

Recent Advances in Natural Products Analysis Seyed Mohammad Nabavi, Mina Saeedi, Seyed Fazel Nabavi, Ana Teresa Sanches Silva, 2020-03-07 Recent Advances in Natural Products Analysis is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products Chemical compounds such as flavonoids alkaloids carotenoids and saponins are examined highlighting the many techniques for studying their properties Each chapter is devoted to a compound category beginning with the underlying chemical properties of the main components followed by techniques of extraction purification and fractionation and then techniques of identification and quantification Biological activities possible interactions levels found in plants the effects of processing and current and potential industrial applications are also included

Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group **Natural Products from Plants** Leland J. Cseke, Peter B. Kaufman, Sara Warber, James A. Duke, Harry L. Briemann, 2010-12-12 There has long been a need for an authoritative source on natural products and plants and how they are used This new volume fills this need bringing together relevant practical information about the various types of natural products produced by plants why they produce them and their importance in today's world Natural Products from Plants provides examples of how plant products are used to benefit humans through prevention and treatment of diseases nutritional value pest control dyes fibers foods and beverages flavorings and fragrances and in creating many other novel compounds Scientists from various disciplines chemists biologists physicians ethnobotanists ecologists nutritionists and others are interested in using natural products from plants but must be aware of the potentially harmful effects of such compounds Some plants are sources of poisons addictive drugs and hallucinogens Anyone looking for a thorough understanding of the properties of natural plant products both beneficial and harmful will find the answers in Natural Products from Plants **Glycoscience: Chemistry and Chemical Biology I-III** Bertram O. Fraser-Reid, Kuniaki Tatsuta, Joachim Thiem, 2012-12-06 Glycostructures play a highly diverse and crucial role in a myriad of organisms and important systems in biology physiology medicine bioengineering and technology Only in recent years have the tools been developed to partly understand the highly complex functions and the chemistry behind them but many facts still remain undiscovered All roads lead to carbohydrates we cannot do without them K C Nicolaou Presently the field is experiencing a quantum jump Therefore the editors have drawn together in this three volume set plus an accompanying CD ROM the complete and up to date information on glycostructures their chemistry and chemical biology and present them in the form of a comprehensive and strictly systematic survey The texts are furnished by 2 670 figures chemical structures and reaction schemes including more than 12 000 individual chemical reactions and more than 9 000 references **Lehninger Principles of Biochemistry** David L. Nelson, Albert L. Lehninger, Michael M. Cox, 2008-02 Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom introducing exciting new developments while communicating basic principles of biochemistry Essentials of Carbohydrate Chemistry John F. Robyt, 2012-12-06 Carbohydrates are the most widely distributed naturally occurring organic compounds on Earth They make up much of our food clothing and shelter and are as vital to national economies as they are to our diet This book is the first broad treatment of carbohydrate chemistry in many years and presents the structures reactions modifications and properties of carbohydrates Woven throughout the text are discussions of biological properties of carbohydrates their industrial applications and the history of the field of carbohydrate chemistry Written for students as well as practicing scientists this text reference will be of interest to a wide range of disciplines influenced by carbohydrates biochemistry chemistry food and nutrition microbiology

pharmacology and medicine **Perspectives in Astrobiology** Richard B. Hoover, Roland Paepe, 2005 *Cellulose Science and Technology* Jean-Luc Wertz, Olivier Bédoué, Jean P. Mercier, 2010-06-21 An ideal reference for scientists in natural and synthetic polymer research this book applies basic biology as well as polymer and sugar chemistry to the study of cellulose and it provides key requirements for understanding this complex science **Boronic Acids in Saccharide Recognition** Tony D James, Marcus D Phillips, Seiji Shinkai, 2007-10-31 The desire to quantify the presence of analytes within diverse physiological environmental and industrial systems has led to the development of many novel detection methods In this arena saccharide analysis has exploited the pair wise interaction between boronic acids and saccharides Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field It also assesses the potential of this innovative approach outlining future lines of research and possible applications Topics include the molecular recognition of saccharides the complexation of boronic acids with saccharides fluorescent sensors and the modular construct of fluorescent sensors further sensory systems for saccharide recognition and an extensive bibliography This high level book is ideal for researchers both academic and industrial who require a comprehensive overview of the subject

Biomass Sugars for Non-Fuel Applications Dmitry Murzin, Olga Simakova, 2015-11-20 Providing an overview of sugar based technologies this book is a valuable resource for chemists working to develop greener synthetic routes to chemicals and pharmaceuticals *Carbohydrates* Helen Osborn, 2003-04-22 There is a vast and often bewildering array of synthetic methods and reagents available to organic chemists today The Best Synthetic Methods series allows the practising synthetic chemist to choose between all the alternatives and assess their real advantages and limitations Each chapter in Carbohydrates details a particular theme associated with carbohydrate synthesis A brief review of the subject area is provided but the emphasis in all cases is on describing efficient practical methods to effect the transformations described In order for the roles of carbohydrates to be thoroughly analysed and assessed glycobiochemists require access to defined target carbohydrates in useful quantities Thus carbohydrates and glycoconjugates are now recognized as important targets for total synthesis programmes and it is essential to develop efficient regio and stereoselective methods for the synthesis of carbohydrates Whilst carbohydrates can sometimes be isolated from natural sources synthetic strategies often offer the advantage of allowing access to larger quantities of material as well as entry to analogues of the natural carbohydrates The latest volume in the long standing Best Synthetic Methods series Clear chapter by chapter breakdown of carbohydrate synthesis themes with examples of good practical methods for common carbohydrate syntheses **Carbohydrates in Sustainable Development II** Amélia P. Rauter, Pierre Vogel, Yves Queneau, 2010-09-17 Knoevenagel Reaction of Unprotected Sugars By M C Scherrmann Carbohydrate Based Lactones Synthesis and Applications By N M Xavier A P Rauter and Y Queneau Heterogeneously Catalyzed Conversion of Carbohydrates By K De Oliveira Vigier and F J r me Palladium Catalyzed Telomerization of Butadiene with Polyols From Mono to Polysaccharides By S Bouquillon J Muzart C Pinel and F

Rataboul Monosaccharides By J A Galbis and M G Garc a Mart n Natural Sources By L Weignerov and V K en Synthesis and Applications of Ionic Liquids Derived from Natural Sugars By C Chiappe A Marra and A Mele *Handbook of Biopolymer-Based Materials* Sabu Thomas, Dominique Durand, Christophe Chassenieux, P. Jyotishkumar, 2013-04-16 This first systematic scientific reference in the area of micro and nanostructured biopolymer systems discusses in two volumes the morphology structure dynamics properties and applications of all important biopolymers as well as their blends composites interpenetrating networks and gels Selected leading researchers from industry academia government and private research institutions around the globe comprehensively review recent accomplishments in the field They examine the current state of the art new challenges and opportunities discussing all the synthetic routes to the generation of both micro and nano morphologies as well as the synthesis characterization and application of porous biopolymers An outstanding resource for anyone involved in the fi eld of eco friendly biomaterials for advanced technologies *Handbook of Biochemistry and Molecular Biology*, 2010-05-21 Edited by renowned protein scientist and bestselling author Roger L Lundblad with the assistance of Fiona M Macdonald of CRC Press this fourth edition of the Handbook of Biochemistry and Molecular Biology represents a dramatic revision the first in two decades of one of biochemistry s most referenced works This edition gathers a wealth of information not easily obtained including information not found on the web Offering a molecular perspective not available 20 years ago it provides physical and chemical data on proteins nucleic acids lipids and carbohydrates Presented in an organized concise and simple to use format this popular reference allows quick access to the most frequently used data Covering a wide range of topics from classical biochemistry to proteomics and genomics it also details the properties of commonly used biochemicals laboratory solvents and reagents Just a small sampling of the wealth of information found inside the handbook Buffers and buffer solutions Heat capacities and combustion levels Reagents for the chemical modification of proteins Comprehensive classification system for lipids Biological characteristics of vitamins A huge variety of UV data Recommendations for nomenclature and tables in biochemical thermodynamics Guidelines for NMR measurements for determination of high and low pKa values Viscosity and density tables Chemical and physical properties of various commercial plastics Generic source based nomenclature for polymers Therapeutic enzymes About the Editors Roger L Lundblad Ph D Roger L Lundblad is a native of San Francisco California He received his undergraduate education at Pacific Lutheran University and his PhD degree in biochemistry at the University of Washington After postdoctoral work in the laboratories of Stanford Moore and William Stein at the Rockefeller University he joined the faculty of the University of North Carolina at Chapel Hill He joined the Hyland Division of Baxter Healthcare in 1990 Currently Dr Lundblad is an independent consultant and writer in biotechnology in Chapel Hill North Carolina He is an adjunct Professor of Pathology at the University of North Carolina at Chapel Hill and Editor in Chief of the Internet Journal of Genomics and Proteomics Fiona M Macdonald Ph D F R S C Fiona M Macdonald received her BSc in chemistry from Durham University UK She obtained her

PhD in inorganic biochemistry at Birkbeck College University of London studying under Peter Sadler Having spent most of her career in scientific publishing she is now at Taylor and Francis and is involved in developing chemical information products *Thin Layer Chromatography in Phytochemistry* Monika Waksmundzka-Hajnos, Joseph Sherma, Teresa Kowalska, 2008-03-04 Thin layer chromatography TLC is increasingly used in the fields of plant chemistry biochemistry and molecular biology Advantages such as speed versatility and low cost make it one of the leading techniques used for locating and analyzing bioactive components in plants Thin Layer Chromatography in Phytochemistry is the first source

Carbohydrates: The Essential Molecules of Life Robert V. Stick, Spencer Williams, 2010-08-06 This book provides the nuts and bolts background for a successful study of carbohydrates the essential molecules that not only give you energy but are an integral part of many biological processes A question often asked is Why do carbohydrate chemistry The answer is simple It is fundamental to a study of biology Carbohydrates are the building blocks of life and enable biological processes to take place Therefore the book will provide a taste for the subject of glycobiology Covering the basics of carbohydrates and then the chemistry and reactions of carbohydrates this book will enable a chemist to gain essential knowledge that will enable them to move smoothly into the worlds of biochemistry molecular biology and cell biology Includes perspective from new co author Spencer Williams who enhances coverage of the connection between carbohydrates and life Describes the basic chemistry and biology of carbohydrates Reviews the concepts synthesis reactions and biology of carbohydrates Advances in Carbohydrate Chemistry and Biochemistry, 2013-11-28 Since its inception in 1945 this serial has provided critical and informative articles written by research specialists that integrate industrial analytical and technological aspects of biochemistry organic chemistry and instrumentation methodology in the study of carbohydrates The articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry Features contributions from leading authorities and industry experts Informs and updates on all the latest developments in the field

Lehninger Principles of Biochemistry Albert L. Lehninger, David L. Nelson, Michael M. Cox, 2005 CD ROM includes animations living graphs biochemistry in 3D structure tutorials

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