

MONOSACCHARIDE *S*UGARS

Chemical Synthesis
by Chain Elongation,
Degradation,
and Epimerization



Zoltán Györgydeák • István F. Pelyvás

Monosaccharide Sugars Chemical Synthesis By Chain Elongation Degradation And Epimerization

Carmen Claver



Monosaccharide Sugars Chemical Synthesis By Chain Elongation Degradation And Epimerization:

Monosaccharide Sugars Zoltan Gyorgydeak,Istvan Pelyvas,1998-01-22 In a single volume Monosaccharide Sugars critically summarizes the applied and potentially useful strategies for the synthesis and degradation of monosaccharides by chain elongation degradation and epimerization These methodologies permit the synthesis of rare or unnatural monosaccharides that are frequently employed as chiral building blocks in natural products synthesis as well as for producing sugar derivatives labeled with radioactive isotopes Representative and well established experimental procedures are provided to illustrate the potential of the synthetic transformation Degradation of carbohydrates also represents an invaluable tool for the structural elucidation of certain natural products such as glycosides antibiotics and polysaccharides When describing the individual methods unique supplementary collections of the prepared sugar derivatives are shown in tabular form This compendium will eliminate tedious literature searches for those engaged in research and teaching on the chemistry and biochemistry of saccharides and other natural products and also for those working on the medicinal and metabolic investigation of related substances of biological importance Illustrates the practical potential of well established experimental procedures in synthetic transformations Provides supplementary collections of prepared sugar derivatives in tabular form Summarizes in a single volume the methods of obtaining carbohydrate derived compounds 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 **Homologation Reactions** Vittorio Pace,2023-05-24 Provides a unique summary of homologation strategies in organic synthesis Homologation Reactions presents different concepts underpinning the use of homologating reagents as well as their applications in organic synthesis It covers in depth discussions on the rationales governing this kind of transformations with a strong emphasis on mechanistic elements modulating critical aspects e g selectivity of the processes In addition this two volume work features Metal carbenoids ylides and diazo reagents Homologating agents working under nucleophilic electrophilic and radical regime Homologations realized on boron containing or carbon centered linchpins Use of highly sensitive fluorinated homologating agents Progressive homologations and the concept of assembly line synthesis Homologation processes followed by rearrangement cascades Construction of

cyclic motifs and ring expansion Homologation reactions with carbon monoxide and carbon dioxide New and or challenging directions to expect in the future Written by an international team of leaders in the field the book is a useful guide for designing effective transformations by using homologation reactions It is a must read for every synthetic chemist in academia and industry

Carbohydrate Chemistry Christian Vogel, Paul Murphy, 2017-09-18 Volumes in the Proven Synthetic Methods Series address the concerns many chemists have regarding irreproducibility of synthetic protocols lack of identification and characterization data for new compounds and inflated yields reported in chemical communications trends that have recently become a serious problem Featuring contributions from world renowned experts and overseen by a highly respected series editor *Carbohydrate Chemistry Proven Synthetic Methods Volume 4* compiles reliable synthetic methods and protocols for the preparation of intermediates for carbohydrate synthesis or other uses in the glycosciences Exploring carbohydrate chemistry from both the academic and industrial points of view this unique resource brings together useful information into one convenient reference The series is unique among other synthetic literature in the carbohydrate field in that to ensure reproducibility an independent checker has verified the experimental parts involved by repeating the protocols or using the methods The book includes new or more detailed versions of previously published protocols as well as those published in not readily available journals The essential characteristics of the protocols presented are reliability updated characterization data for newly synthesized substances and the expectation of wide utility in the carbohydrate field The protocols presented will be of wide use to a broad range of readers in the carbohydrate field and the life sciences including undergraduates taking carbohydrate workshops

Carbohydrate Chemistry René Roy, Sébastien Vidal, 2015-04-23 Volumes in the Proven Synthetic Methods Series address the concerns many chemists have regarding irreproducibility of synthetic protocols lack of characterization data for new compounds and inflated yields reported in chemical communications trends that have recently become a serious problem Featuring contributions from world renowned experts and

Carbohydrate Analysis by Modern Chromatography and Electrophoresis Ziad El Rassi, 2002-10-31 This book is an updated and expanded edition of *Carbohydrate Analysis High Performance Liquid Chromatography and Capillary Electrophoresis* and is concerned with the analysis of carbohydrates by modern chromatography and electrophoresis including analytical and preparative high performance liquid chromatography HPLC thin layer chromatography TLC field flow fractionation FFF capillary electrophoresis CE capillary electrochromatography CEC polyacrylamide gel electrophoresis PAGE gas chromatography GC and supercritical fluid chromatography SFC Thirty one chapters cover various modes of HPLC CE CEC FFF GC and SFC that are currently applied to the analysis of carbohydrates discussions on analytical and preparative separations descriptions of the principles of detection and quantitative determination of carbohydrates by the various separation techniques reviews of sample preparations and information on important applications Furthermore the book describes in detail the different direct and indirect detection methods that have been introduced for the sensitive detection of carbohydrates This title is useful for a

wide audience including separation scientists analytical chemists and biochemists carbohydrate chemists glycoprotein and glycolipid chemists molecular biologists and biotechnologists The book is also a useful reference for both the experienced analyst and the newcomer and for users of modern chromatography and electrophoresis Contains 31 chapters covering all aspects of carbohydrate analysis by modern chromatography and electrophoresis Each chapter discusses the basic principles advantages and limitations and applications of the particular detection technique Useful reference for both the experienced analyst and the newcomer

Rhodium Catalysis Carmen Claver, 2017-12-15 The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry As our understanding of organometallic structure properties and mechanisms increases new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis medical research biology and materials science Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry where new breakthroughs are being achieved that are of significance to a larger scientific audience The individual volumes of Topics in Organometallic Chemistry are thematic Review articles are generally invited by the volume editors All chapters from Topics in Organometallic Chemistry are published OnlineFirst with an individual DOI In references Topics in Organometallic Chemistry is abbreviated as Top Organomet Chem and cited as a journal

Carbohydrates Robert V. Stick, 2001-03-08 This book is on carbohydrates the essential molecules that give you energy They are the building blocks of life This book delivers up to date coverage on all aspects of carbohydrate chemistry The molecules are sometimes sugars i.e. sweet hence the subtitle The Sweet Molecules of Life Carbohydrates first gives the nuts and bolts of carbohydrate chemistry enabling the reader to appreciate the subsequent chapters on protecting groups and the reactions of monosaccharides The protecting groups do just that they are put on the molecules as a temporary measure during one or more reactions to stop the wrong bit of the molecule being changed during that reaction Introduces the basic chemistry of carbohydrates Describes the concepts protecting groups and reactions of carbohydrates Includes all aspects of the synthesis of the glycosidic linkage Gives an introduction to glycobiology and vaccines Includes references to carbohydrate literature

Polish Journal of Chemistry, 2005 *American Book Publishing Record*, 1998 **The British National Bibliography** Arthur James Wells, 1999 *Books in Print Supplement*, 2002

Current Organic Chemistry, 2009 Provides in depth reviews on current progress in the fields of asymmetric synthesis organometallic chemistry bioorganic chemistry heterocyclic chemistry natural product chemistry and analytical methods in organic chemistry Each issue is edited by an appointed Executive Guest Editor

Harper's Review of Biochemistry, 1981 Cumulated Index Medicus, 1984 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

Glycochemical Synthesis Shang-Cheng Hung, Medel Manuel L. Zulueta, 2016-09-12 This book is a comprehensive and concise review on principles strategies and crucial advances in glycochemistry It focuses on synthesis and practical applications and emphasizes state of the art approaches to the assembly and design of sugars Provides detailed discussion on specific topics like oligosaccharide assembly and design of sugars techniques in glycoconjugate preparation multivalency and carbohydrate based drug design Uses notable examples like solution based one pot methods and automated methods for sugar assembly to illustrate important concepts and advances in a rapidly emerging field Discusses practical applications of carbohydrates like medicine therapeutics drug and vaccine development

The Monosaccharides Jaroslav Staněk, 1963

Enzymatic Isomerization and Epimerization of Monosaccharides Bethany Lee Christopher, 2021 Only select monosaccharides such as D glucose D mannose and D fructose are abundant in nature while the remaining monosaccharides are termed rare sugars due to their lack of availability nature Rare sugars have potential applications for commercial industries including the food and pharmaceutical industries However application of rare sugars is limited due to their lack of accessibility To apply and to study rare sugars scalable efficient synthetic processes are needed Herein this review surveys existing literature on the enzymatic isomerization and epimerization reactions for the synthesis of rare sugars

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