

The Chemistry of Double-Bonded Functional Groups

Supplement A3, 2 Part Set

Saul Patai

Supplement A3 The Chemistry Of Double Bonded Functional Groups

George A. Olah,Árpád Molnár



Supplement A3 The Chemistry Of Double Bonded Functional Groups:

The Chemistry of Double-bonded Functional Groups Saul Patai, 1989 The most complete resource in functional group chemistry Patai's Chemistry of Functional Groups is one of chemistry's landmark book series in organic chemistry An indispensable resource for the organic chemist this is the most comprehensive reference available in functional group chemistry Founded in 1964 by the late Professor Saul Patai the aim of Patai's Chemistry of Functional Groups is to cover all the aspects of the chemistry of an important functional group in each volume with the emphasis not only on the functional group but on the whole molecule The Chemistry of Double-Bonded Functional Groups, Supplement A3, 2 Part Set Saul Patai, 1997-05-28 Double bonds are one of the key functional groups in organic syntheses This supplementary volume deals with advances in physical organic chemistry especially in MS thermochemistry and photochemistry Applications include the use of double bonds in liquid crystals This volume is now available in electronic format from BooksOnline The Chemistry of the Hydrazo, Azo and Azoxy Groups, Volume 2 Saul Patai, 1997-12-29 The first volume of The Chemistry of the Hydrazo Azo and Azoxy Groups was published in 1975 in two parts and the present book is the second volume of this publication Since 1975 three supplementary volumes dealing with the chemistry of double bonded functional groups were also published in the Series and these volumes contain much material on the chemistry of azoxy compounds Several subjects were omitted from the original volume in 1975 These omissions have been corrected in the present volume which contains chapters on Detection identification and determination on NMR on ESR on PES on pharmacology and toxicology and also on safety and environmental factors *The Chemistry of Organic Silicon Compounds, Volume 3* Zvi Rappoport, Yitzhak Apeloig, 2001-11-28 Complementing the six volumes already published in Patai's Chemistry of the Functional Groups series this title covers topics not previously updated in the set Written by key researchers in the field it includes more practical chapters and industrial examples than before as well as additional material There is a strong emphasis on Poly derivatives of various classes of silicon compounds as well as a chapter on silicon in modern high technology These supplement the practical parts of earlier volumes and enhance past material Continues with the high standard expected of the series Complement to the 3 volume set of the chemistry of organic silicon compounds published in 1998 Updates content from previous volumes and includes chapters on theory and silicon based radicals that are of theoretical and practical importance An invaluable reference source to organic chemists working in academia and industry Includes many more industrial examples than previous titles in the series This volume complements the main volumes with little overlap and ensures the functional group series continues its superiority in the silicon field This volume is now available in electronic format from BooksOnline **The Chemistry of Nitrogen-rich Functional Groups** Alexander Greer, Joel F. Liebman, 2019-12-31 Stickstoff besitzt unter Nichtkohlestoffatomen die einzigartige Fähigkeit Ein Zwei und Dreifachbindungen mit sich selbst zu bilden Dadurch entsteht eine Vielzahl organo chemischer Gruppen die mehrere Stickstoffatome in verschiedenen Zuständen und Geometrien

enthalten Der vorliegende Band untersucht die Eigenschaften und das chemische Verhalten aller wichtigen kohlenstoffreichen organo chemischen Gruppen wie Azide Azimine Aziridine Diazoverbindungen Nitramine Nitrene Nitrosamine Polyazine N oxide Tetrazole Triazene und Triazole Ein besonderer Fokus liegt auf konomisch wichtigen Verbindungen die z B als hochwirksame Sprengstoffe zum Einsatz kommen In der Reihe PATAI s Chemistry of Functional Groups erscheinen umfassende Untersuchungen zu allen Aspekten spezieller funktionaler Gruppen Jeder Band bietet einen herausragenden berblick ber theoretische Aspekte und rechnergest tzte Verfahren NMR MS und weitere spektroskopische Methoden sowie ber die analytische Chemie strukturelle Aspekte Thermochemie Fotochemie synthetische Ans tze und Strategien synthetische Anwendungsbereiche und Anwendungen in der chemischen und pharmazeutischen Industrie biologische biochemische und Umweltaspekte Bis heute wurden in der Reihe nahezu 150 B nde ver ffentlicht

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Hydrocarbon Chemistry, 2 Volume Set George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-10-02 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists Angewandte Chemie and useful for chemical engineers as well as engineers in the chemical and petrochemical industries Petroleum Science and Technology

The Chemistry of Organogold Compounds, 2 Volume Set Zvi Rappoport, Ilan Marek, Joel F. Liebman, 2015-04-20 The first book in the PATAI Series was published in 1964 and the Series will celebrate its 50th Anniversary in 2014 This Golden Jubilee is accompanied by the publication of the first volume on the chemistry of organogold In the history of the PATAI Series there was so far no volume dedicated to gold alone In 1999 we published a volume on The Chemistry of Gold and Silver Compounds Since then a lot of new chemistry using gold has been developed and it is timely to focus a volume on methods and applications of organogold compounds in organic synthesis reflecting the enormous progress which has been made in the use of gold compounds as reagents and catalysts A second area of great importance covered in the book is the use of gold surfaces in the synthesis of peptides proteins and other natural products A whole range of applications in the area of biochemistry has resulted from these developments A third area

of interest is the synthesis and engineering of nanostructures where organogold chemistry has opened the door for a wide range of methods and applications in the field of nanoscience and materials science As with all new volumes the chapters are first published online in Patai's Chemistry of Functional Groups Once a volume is completed online it is then published in print format The printed book offers the traditional quality of the Patai Book Series complete with an extensive index

Synthetic Organic Photochemistry Axel G. Griesbeck, Jochen Mattay, 2004-11-30 With contributions from 24 international authorities Synthetic Organic Photochemistry offers a leading edge presentation of the most recent and in demand applications of photochemical methodologies Outlining a wide assortment of reaction types entailing cycloadditions cyclizations isomerizations rearrangements and other organic syntheses this [The Chemistry of Hydroxylamines, Oximes and Hydroxamic Acids](#), 2008-12-23 Focusing on an important class of compounds in organic synthesis this text features contributions by leading experts and delivers the quality expected from the Patai Series [Organic Conformational Analysis and Stereochemistry from Circular Dichroism Spectroscopy](#) David A. Lightner, Jerome E. Gurst, 2000-03-31 A unique guide to variable temperature CD spectroscopy and its application in organic chemistry This timely original thought provoking work looks at organic stereochemistry from the perspective of circular dichroism CD using variable temperature CD spectroscopy to determine the conformation or absolute configuration of chiral molecules With an emphasis on the analysis of optically active ketones and the carbonyl chromophore the authors demonstrate the advantages of this highly sensitive spectroscopic tool for obtaining stereochemical information in diverse areas of organic chemistry biochemistry and medicinal pharmaceutical chemistry They combine detailed examples of stereochemical analysis with clear thorough presentations correlating chiroptical data with molecular mechanics calculations as well as data from NMR spectroscopy and other spectroscopic techniques In addition they provide a systematic survey of the professional literature featuring an extraordinary collection of original CD spectra run at varying temperatures Coverage includes Chiroptical measurements CD and ORD Optical Rotatory Dispersion Conformational analysis of compounds ranging from simple cyclic ketones to polycyclics Conjugated and homoconjugated systems Stereochemistry of the carbon carbon double bond Stereochemistry from exciton coupling of two or more chromophores An interesting historical account of the development of stereochemical concepts [Pauling's Legacy](#) Z.B. Maksic, W.J. Orville-Thomas, 1999-03-31 Theory and experiment in chemistry today provide a wealth of data but such data have no meaning unless they are correctly interpreted by sound and transparent physical models Linus Pauling was a grandmaster in the modelling of molecular properties Indeed many of his models have served chemistry for decades and that has been his lasting legacy for chemists all over the world The aim of this book is to put such simple models into the language of modern quantum chemistry thus providing a deeper justification for many of Pauling's ideas and concepts However it should be stressed that many contributions to this work written by some of the world's most prominent theoretical chemists do not merely follow Pauling's footprints By taking his example they made bold

leaps forward to overcome the limitations of the old models thereby opening new scientific vistas This book is an important contribution to the chemical literature It is an almost obligatory textbook for postgraduate students and postdoctoral researchers in physical chemistry chemical physics and advanced physical organic chemistry *Hypercarbon Chemistry* George A. Olah, G. K. Surya Prakash, Robert E. Williams, Kenneth Wade, Árpád Molnár, 2011-08-04 The essential new edition of the book that put hypercarbon chemistry on the map A comprehensive and contemporary treatment of the chemistry of hydrocarbons alkanes alkenes alkynes and aromatics towards electrophiles Hypercarbon Chemistry Second Edition deals with all major aspects of such chemistry involved in hydrocarbon transformations and of the structural and reaction chemistry of carboranes mixed hydrides in which both carbon and boron atoms participate in the polyhedral molecular frameworks Despite the firmly established tetravalency carbon can bond simultaneously to five or more other atoms Hypercarbon bonding permeates much organic inorganic and organometallic chemistry and the book serves as the compendium for this phenomenon Copious diagrams illustrate the rich variety of hypercarbon structures now known and patterns therein Individual chapters deal with specific categories of compound e g organometallics carboranes carbocations or transformations that proceed through transient hypercarbon species detailing fundamental chemistry including reactivity selectivity stereochemistry mechanistic factors and more

Science of Synthesis: Houben-Weyl Methods of Molecular Transformations Vol. 40a Dieter Enders, Ernst Schaumann, 2014-05-14 Science of Synthesis Houben Weyl Methods of Molecular Transformations is the entirely new edition of the acclaimed reference series Houben Weyl the standard synthetic chemistry resource since 1909 This new edition is published in English and will comprise 48 volumes published between the years 2000 and 2008 Science of Synthesis is a quality reference work developed by a highly esteemed editorial board to provide a comprehensive and critical selection of reliable organic and organometallic synthetic methods This unique resource is designed to be the first point of reference when searching for a synthesis strategy Contains the expertise of presently 400 leading chemists worldwide Critically evaluates the preparative applicability and significance of the synthetic methods Discusses relevant background information and provides detailed experimental procedures For full information on the Science of Synthesis series visit the Science of Synthesis Homepage

Hydrocarbon Chemistry George A. Olah, Árpád Molnár, 2003-09-10 Hydrocarbons and their transformations play major roles in chemistry as raw materials and sources of energy Diminishing petroleum supplies regulatory problems and environmental concerns constantly challenge chemists to rethink and redesign the industrial applications of hydrocarbons Written by Nobel Prize winner George Olah and hydrocarbon expert Árpád Molnár the completely revised and expanded Second Edition of Hydrocarbon Chemistry provides an unparalleled contemporary assessment of the field presenting basic concepts current research and future applications Hydrocarbon Chemistry begins by discussing the general aspects of hydrocarbons the separation of hydrocarbons from natural sources and the synthesis from C1 precursors with recent developments for possible future applications Each

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Heterogeneous Catalysis in Organic Chemistry Gerard V. Smith, Ferenc Notheisz, 1999-06-30 The features of this book which will be of special interest to academic organic chemists are the introduction Chapter 1 which presents a short course on the concepts and language of heterogeneous catalysis covers organic reaction mechanisms of hydrogenation Chapter 2 hydrogenolysis Chapter 4 and oxidation Chapter 6 a presents problems and solutions specific for running heterogeneous catalytic organic reactions in solution These materials can supplement advanced chemistry courses Most synthetic organic chemists use a variety of protecting groups which they attach to functional groups reactive groups of atoms while some reaction is being conducted on another part of the molecule These protecting groups prevent reactions of the functional groups during other reactions and are removed later by a heterogeneous catalytic method called hydrogenolysis One unique feature of this book not found in other books on catalysis is an exhaustive chapter Chapter 4 on hydrogenolysis which is dredged from the recent synthetic literature published by modern organic chemists Academic organic chemists should find this chapter extremely useful and may wish to adopt the book as a supplement for advanced organic chemistry courses designed for seniors and for graduate students It will also be useful for professors and their research groups engaged in synthetic organic chemistry Many academic organic chemists are not aware of recent advances in heterogeneous enantioselective catalysis Chapter 3 or in selective low temperature liquid phase heterogeneous catalytic oxidations by hydrogen peroxide Chapter 6 These specialty topics are timely and may be new to academic organic chemists and can be used to supplement their advanced courses Several features of this book will also be of special interest to industrial chemists who are unfamiliar with heterogeneous catalysis Many good organic chemists are hired by industry They synthesize a new compound using standard organic synthetic techniques but are informed by their supervisor that they must convert some of their synthetic steps into heterogeneous catalytic steps They may not have been exposed to heterogeneous catalysis and have few places to turn This book offers them a crash course in heterogeneous catalysis as well as many examples of reactions and conditions with which they can start their search Those industrial organic chemists already familiar with heterogeneous catalysis will find this book useful as a reference to many examples in the recent literature They will find recent surface

science discoveries correlated with heterogeneous catalysis or organic reactions and mechanistic suggestions designed to stimulate innovative nontraditional thinking about organic reactions on surfaces Written by organic chemists for organic chemists Introduces heterogeneous catalysis concepts and language Presents a comprehensive compilation of protecting group removal procedures Covers liquid phase hydrogenations hydrogenolysis and oxidations Addresses heterogeneous methods for producing pure enantiomers of chiral products Examines the emerging field of heterogenized homogeneous catalysts Mixes practical applications with mechanistic interpretations

The Chemistry of Dienes and Polyenes Zvi Rappoport, 1997 This volume focuses on the chemistry of dienes and polyenes which are an extremely important group of chemicals in the investigation of different types of syntheses based on the Diels Adler reactions that allows for stereospecific molecules to be prepared Dienes and polyenes are found in a large number of natural and human made products including such natural products as terpenes cholesterol Vitamin A and many essential oils as well as many polymers and rubber products This volume is now available in electronic format from Books Online

The Amide Linkage Arthur Greenberg, Curt M. Breneman, Joel F. Liebman, 2002-11-11 An authoritative reference to an important and ubiquitous chemical linkage The amide linkage is one of the most fundamental and widespread chemical bonds in nature underlying the properties of a vast array of organic molecules polymers and materials including peptides and proteins Arthur Greenberg Curt Breneman and Joel Liebman's peerless text provides comprehensive coverage of the experimental structural and computational findings that shed light on the chemical and physical properties of the amide linkage as well as its emerging applications in materials and biotechnology Chapters in The Amide Linkage highlight how this chemical bond factors in the design of enzyme inhibitors cyclic peptides antibacterial agents and emerging nanotechnology applications This one of a kind study also Discusses selected aspects of chemical reactions structure bonding and energetics of the amide bond including amide rotational barriers stereochemistry complexation spectroscopy and thermochemistry Presents specific applications to supramolecular and stereospecific synthesis Discusses key aspects of peptide and protein chemistry such as molecular recognition conformation and folding in terms of the amide linkage Includes chapters contributed by numerous eminent chemists and biochemists Organic medicinal polymer and physical chemists as well as biochemists and materials scientists will find The Amide Linkage to be an invaluable addition to their professional libraries

Drug Metabolism N. J. Gooderham, 1998 With its roots in the last century and currently exploiting the technology of today the science of drug metabolism has made significant contributions to our understanding of chemico biological interactions This book reviews past successes and failures within the science and attempts to predict new directions Each of the chapters of this book deals with an aspect of xenobiotic metabolism which has featured prominently in the development of the discipline The volume is testimony to the breadth and depth of research into xenobiotic metabolism and covers the chemistry and enzymology of xenobiotic metabolism enzyme modeling and structure activity relationships pharmacokinetics the use of recombinant gene

technology site directed mutagenesis transgenic and gene knockout models new analytical techniques including capillary electrophoresis mass spectrometry accelerator mass spectrometry high throughput analysis toxicological assessment pharmacogenetics drug development and therapeutics With new chemical entities constantly emerging and requiring evaluation the concepts and techniques developed in this book will help focus future lines of investigation and help set priorities in the next millennium **Polyarenes II** Jay S. Siegel, Yao-Ting Wu, 2014-11-25 Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field

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