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CRC Handbook of Phosphorus-31 Nuclear Magnetic Resonance Data

John C. Tebby



Handbook Of Phosphorous 31 Nuclear Magnetic Resonance Data

Louis D. Quin, John G. Verkade

Handbook Of Phosphorous 31 Nuclear Magnetic Resonance Data:

Handbook of Phosphorus-31 Nuclear Magnetic Resonance Data John C. Tebby, 1990-12-26 To fully utilize Nuclear Magnetic Resonance NMR spectroscopy a comprehensive and well organized compilation of NMR data is necessary While compilations have been available for other important NMR nuclei such as carbon and fluorine no comprehensive collection of data has been prepared for phosphorus until now The CRC Handbook of Phosphorus 31 Nuclear Magnetic Resonance Data provides a collection of 31P NMR chemical shifts for nearly 20 000 organic and inorganic phosphorus compounds Each class of phosphorus compound is discussed Bond types stereochemistry with the exception of metal complexes media important coupling constants and data sources are included The information is systematically organized according to coordination state the atoms bound to phosphorus and their connectivities A comprehensive series of bar charts is also included to allow structure types to be assigned to chemical shift data This handbook is an invaluable resource for all scientists working with phosphorus compounds including chemists biochemists medical researchers and pharmaceutical chemists Phosphorus-31 Nuclear Magnetic Resonance Data (1990) John C. Tebby, 2017-11-22 To fully utilize Nuclear Magnetic Resonance NMR spectroscopy a comprehensive and well organized compilation of NMR data is necessary While compilations have been available for other important NMR nuclei such as carbon and fluorine no comprehensive collection of data has been prepared for phosphorus until now The CRC Handbook of Phosphorus 31 Nuclear Magnetic Resonance Data provides a collection of 31P NMR chemical shifts for nearly 20 000 organic and inorganic phosphorus compounds Each class of phosphorus compound is discussed Bond types stereochemistry with the exception of metal complexes media important coupling constants and data sources are included The information is systematically organized according to coordination state the atoms bound to phosphorus and their connectivities A comprehensive series of bar charts is also included to allow structure types to be assigned to chemical shift data This handbook is an invaluable resource for all scientists working with phosphorus compounds including chemists biochemists medical researchers and pharmaceutical chemists & Francis Group, 2018-12-31 **Phosphorus-31 NMR Spectroscopy** Olaf Kühl, 2008-08-22 Nuclear Magnetic Resonance is a powerful tool especially for the identification of 1 13 hitherto unknown organic compounds H and C NMR spectroscopy is known and applied by virtually every synthetically working Organic Chemist Con quently the factors governing the differences in chemical shift values based on chemical environment bonding temperature solvent pH etc are well understood and specialty methods developed for almost every conceivable structural challenge Proton and carbon NMR spectroscopy is part of most bachelors degree courses with advanced methods integrated into masters degree and other graduate courses In view of this universal knowledge about proton and carbon NMR spectr copy within the chemical community it is remarkable that heteronuclear NMR is still looked upon as something of a curiosity Admittedly most organic compounds contain only nitrogen oxygen and sulfur atoms as well as the obligatory hydrogen and carbon atoms elements that have an unfavourable

isotope distribution when it comes to NMR spectroscopy Each of these three elements has a dominant isotope 14 16 32 16 32 N 99 63% natural abundance O 99 76% and S 95 02% with O S and 34 14 S 4 21% NMR silent N has a nuclear moment I 1 and a sizeable quadrupolar moment that makes the NMR signals usually very broad and dif cult to analyse Handbook of Basic Tables for Chemical Analysis Thomas J. Bruno, Paris D.N. Svoronos, 2010-12-13 Winner of an Oustanding Academic Title Award for 2011 Researchers in organic chemistry chemical engineering pharmaceutical science forensics and environmental science make routine use of chemical analysis but the information these researchers need is often scattered in different sources and difficult to access The CRC Handbook of Basic Tables **Organophosphorus Chemistry** Viktor Iaroshenko, 2019-01-07 Filling the gap for an up to date reference that presents the field of organophosphorus chemistry in a comprehensive and clearly structured way this one stop source covers the chemistry properties and applications from life science and medicine Divided into two parts the first presents the chemistry of various phosphorus containing compounds and their synthesis including ylides acids and heterocycles The second part then goes on to look at applications in life science and bioorganic chemistry Last but not least such important practical aspects as 31P NMR and protecting strategies for these compounds are presented For organic bioinorganic and medicinal chemists as well as those working on organometallics and for materials scientists The book a contributed work features a team of renowned scientists from around the world whose expertise spans the many aspects of modern organophosphorus chemistry

Handbook of Organophosphorus Chemistry Robert Engel, 1992-06-19 This practical work summarizes the development of organophosphorus chemistry in topical areas and details the discipline s current state providing applications and experimental procedures throughout Written by 18 leading authorities in the field the Handbook of Organophosphorus Chemistry examines advances in the mechanistic understanding of the Perkow and related organophosphorus reactions describes methods for the reduction of guinguevalent to trivalent phosphorus and their applications to standard synthetic procedures emphasizes the preparation of phosphonates bearing hydroxy amino and thiol functions at the alpha position relative to the phosphoryl group reviews the basics of NMR as it applies to the 31P nucleus considering the use of the latest measurement techniques in solving structural and mechanistic problems compares the characteristics of polymer based and monomeric materials and presents recent progress in the design of insecticides and covers their chemical and biological characteristics Generously referenced with close to 3000 bibliographic citations the Handbook of Organophosphorus Chemistry is an important volume for organic medicinal and agricultural chemists and biochemists pharmacists chemical engineers and graduate level students in these disciplines A Guide to Organophosphorus Chemistry Louis D. Quin,2000-02-04 An authoritative and comprehensive introduction to organophosphorus chemistry. The broad exciting field of organophosphorus chemistry has grown tremendously over the last few decades with a wealth of opportunities for research and applications development A Guide to Organophosphorus Chemistry offers chemists in academia and industry complete

up to date coverage of the fundamentals with an eye on future developments in this area Internationally recognized authority Louis D Quin extends his experienced perspective and insight on the topic by Surveying the most important phosphorus containing functional groups Including representative methods of synthesis plus references to detailed synthetic procedures Outlining advances in stereochemical aspects of phosphorus chemistry Covering areas of current research such as unusual coordination states heterocycles applications of 31P NMR and other spectroscopic methods Providing numerous references to important review articles and recent literature Presenting electronic mechanisms and reactive intermediates where established Discussing the importance of phosphorus compounds in living systems and in agricultural applications Liberally illustrated with equations and structural formulas A Guide to Organophosphorus Chemistry presents a virtually unparalleled introduction to the subject matter making it an indispensable instructional tool for aspiring chemists and practicing chemists alike Best Synthetic Methods Chris Timperley, 2014-12-01 Best Synthetic Methods Organophosphorus V Chemistry provides systematic coverage of the most common classes of pentavalent organophosphorus compounds and reagents including phosphoryl phosphoryl and organophosphates and allows researchers an easy point of entry into this complex and economically important field The book follows the Best Synthetic Methods format containing practical methods synthetic tips and shortcuts Where relevant articles include toxicity data and historical context for the reactions Typical analytical and spectroscopic data are also presented to enable scientists to identify key compound characteristics. The book is a valuable companion to research chemists in both academia and industry summarizing the best practical methods often originating in difficult to access foreign language primary literature in one place It is ideally suited for those working on industrial applications of these compounds including insecticides herbicides flame retardants and plasticizers Includes a mixture of tried and tested historical methods that are proven to work alongside new methods to provide scientists with a quick time saving resource of reliable methods Includes tips and tricks to get reactions to work important information often missing from other sources Includes key analytical data for compounds so scientists have one handy resource to select perform and analyze the best reaction Handbook of Biochemical Kinetics Daniel L. Purich, R. Donald Allison, 1999-10-26 Biochemical kinetics refers to the rate at which a reaction takes place Kinetic mechanisms have played a major role in defining the metabolic pathways the mechanistic action of enzymes and even the processing of genetic material The Handbook of Biochemical Kinetics provides the underlying scaffolding of logic for kinetic approaches to distinguish rival models or mechanisms. The handbook also comments on techniques and their likely limitations and pitfalls as well as derivations of fundamental rate equations that characterize biochemical processes Key Features Over 750 pages devoted to theory and techniques for studying enzymic and metabolic processes Over 1 500 definitions of kinetic and mechanistic terminology with key references Practical advice on experimental design of kinetic experiments Extended step by step methods for deriving rate equations Over 1 000 enzymes complete with EC numbers reactions catalyzed and references to

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Phosphorus-31 NMR Spectral Properties in Compound Characterization and Structural Analysis Louis D. Quin, John G. Verkade, 1994-10-27 This is a methods oriented book which contains enormous amounts of information on 31P NMR in a concise and well edited format It is an invaluable resource for every NMR spectroscopist This book consists of 33 chapters which together constitute a compendium that will be of optimal utility to the majority of 31P NMR spectroscopy users as well as to those perhaps not as familiar with the technique but curious about potential applications in their own research From the editors preface There have been a number of new developments in NMR techniques in the 6 years since Verkade and Quin edited the first successful book on 31P NMR This new book does not supersede the previous book it offers a wide cross section of recent research Compard to the first basic grounding volume this book presents more results it is more applied it directly reflects a more mature science Arguably VCH has published the best NMR books in recent years Neuhaus Williamson Croasmun Carlson etc This new addition to VCH s NMR list ensures the continued visibility and excellence of VCH in this field Nucleoside Triphosphates and their Analogs Morteza Vaghefi, 2016-04-19 While adenosine triphosphate ATP is described as the universal currency of energy in all living organisms at the cellular level the actual power lies in its phosphate tail This book is the first dedicated to the field of nucleoside triphosphate NTP Its 13 chapters encompass the contributions of twenty scientists from both academia and industry It provides collective information on the chemical physiochemical and biological properties of both natural and modified NTP and their application in life sciences

Three chapters review families of enzymes that depend on nucleotides for assembling DNA and RNA molecules The appendix includes supporting NMR data Modern Phosphonate Chemistry Philippe Savignac, Bogdan Iorga, 2003-04-28 A century after their discovery phosphonates have become important compounds recognized both for their use as efficient reagents in organic synthesis and for their biological and industrial importance This unique up to date reference presents a concise summary of the state of the art in phosphonate chemistry covering the role of phosphonates in **Organophosphorus Reagents** Dr. Patrick J. Murphy, 2004 Organophosphorus Chemistry A Practical Approach in Chemistry provides a practical introduction to the field by mixing a brief review of the subject area with key experimental details and sample procedures Phosphorus is an element that has been central to the development of our modern way of life Its chemistry plays a key role in the development of such important areas as pharmaceuticals agrochemicals modern materials and molecular biology Much of this work requires a sound understanding of the organic chemistry of phosphorus and this volume is designed to instruct the reader in the essential methodology used Topics covered include phosphines applications of phosphorus III and V compounds as reagents in synthesis the chemistry of phosphorus ylides applications of the Wittig reaction in the synthesis of heterocyclic and carbocyclic compounds preparation of Iminophosphoranes and their synthetic applications in the aza Wittig reaction phospho transfer processes leading to P C bond formation low valent phosphorus compounds and phosphorus methods in oligonucleotide chemistry. It is intended not only for the specialist in organophosphorus chemistry but also for the organic chemist with little experience in the field who wishes to add phophorus based techniques to his or her ensemble of synthetic methods NMR Data Handbook for Biomedical Applications Paula T. Beall, Sharad R. Amtey, Sitapati R. Kasturi, 1984

Synthesis and Original Reactivity of Copper and Gold Complexes Maximilian Joost, 2015-06-13 This thesis addresses the coordination chemistry and reactivity of copper and gold complexes with a focus on the elucidation of i the metal mediated activation of bonds and ii the migratory insertion reaction Both processes are of considerable importance in organometallic chemistry but remain elusive for Cu and Au complexes In this work the author contributes significant advances The first SiH complexes of copper are experimentally and computationally characterized yielding valuable insights into bond activation processes for copper Evidence for a highly unusual migratory syn insertion of unsaturated organic molecules into the gold silicon bond of silylgold I complexes is provided and the corresponding mechanism identified The intermolecular oxidative addition of SiSi CC and CX X halogen bonds with molecular gold I complexes is studied in detail effectively demonstrating that this reaction usually considered to be impossible for gold is actually highly favored provided an adequate ligand is employed The use of small bite angle bis phosphine gold I complexes allows for the first time the oxidative addition of CC and CX bonds for gold I These results shed light on an unexpected reactivity pattern of gold complexes and may point the way to 2 electron redox transformations mediated by this metal opening up new perspectives in gold catalysis

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