Synthesis of Carbon-Phosphorus Bonds

Robert Engel JaimeLee Iolani Cohen



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Lingsheng Yao

Synthesis Of Carbon Phosphorus Bonds:

Synthesis of Carbon-Phosphorus Bonds Robert Engel, 2003-12-18 Synthesis of Carbon Phosphorus Bonds Second Edition is a working guide for the laboratory incorporating classical approaches with the recent developments of carbon phosphorus C P bond formation These advances include the preparation of phosphoranes specifically in the use of transient oxophosphoranes as intermediates in organophosphorus comp Synthesis of Carbon-Phosphorus Bonds, Second **Edition** Robert Engel, 2003-12-18 Synthesis of Carbon Phosphorus Bonds Second Edition is a working guide for the laboratory incorporating classical approaches with the recent developments of carbon phosphorus C P bond formation These advances include the preparation of phosphoranes specifically in the use of transient oxophosphoranes as intermediates in organophosphorus compound synthesis along with the new approaches towards the preparation of compounds with aromatic and vinylic C P bonds Synthesis of Carbon Phosphorus Bonds Second Edition serves as a useful tool in the laboratory It offers detailed surveys of IUPAC nomenclature recommendations common notation systems and various experimental examples These features help to make this text an effective source of critical and annotated references as well as a a working guide for organic and phosphorus chemists specifically or for any chemists working with C P bonds **Inorganic Reactions and** Methods, The Formation of Bonds to N,P,As,Sb,Bi (Part 1) J. J. Zuckerman,2009-09-17 This 18 volume series is a true first In a clear concise and highly organized manner it provides an in depth treatment of bond formation reactions categorized by element type The series presents current knowledge in all areas of inorganic chemistry including chemistry of the elements coordination compounds donor acceptor adducts organometallic polymer and solid state material and compounds relevant to bioinorganic chemistry A unique index system provides users with several fast options for accessing information on forming any bond type compound or reaction Coverage of both classical chemistry and the frontiers of today s research makes this series a valuable reference for years to come **Comprehensive Organic Functional Group** Transformations: Synthesis: carbon with one heteroatom attached by a single bond Alan R. Katritzkv. Otto Meth-Cohn, Charles Wayne Rees, 1995-12-29 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 Carbon-phosphorus Bond Formation Yamina Belabassi, 2009 The work presented in this dissertation deals with the development of new methodologies for P C bond formation as well as synthesizing biologically relevant organophosphorus compounds A distinct emphasis is given to the important synthetic targets the H phosphinates A review of relevant literature is provided in Chapter 1 Chapter 2 describes the synthesis and structural analyses of triphenylmethyl containing phosphorus compounds For the first time both phosphonothioic and boranophosphonic acids have been characterized by single X ray diffractometry. The third chapter details the preparation and the reactivity of phosphine borane complexes Novel dialkoxyphosphine borane complexes were introduced both as general synthetic intermediates for the preparation of H phosphinates or disubstituted phosphinic acids and as boranophosphonate precursors Related to this chemistry silvlation of an H phosphinate intermediate can also be conducted and the resulting phosphonite protected with borane This allows the temporary protection of the sensitive P H group so that manipulations of the alkyl chain might be conducted In chapter 4 the palladium catalyzed cross coupling reaction of dialkylphosphites with aryl and heteroaryl halides is presented An efficient versatile and economically attractive alternative to the original Hirao cross coupling by using only 1 mol% or less Pd OAc 2 dppf is described Moreover first example of palladium catalyzed P C bond formation between activated aryl chlorides and a phosphite are herein reported Chapter 5 focuses on the free radical hydrophosphinylation of alkynes The triethylborane initiated radical addition of sodium hypophosphite to terminal alkyne affords the previously unknown 1 1 bis H phosphinates precursors of the biologically relevant 1 1 bisphosphonates e g treatment of bone diseases Thus the oxidative conversion of 1 1 bis H phosphinates to the corresponding bisphosphonates as well as the synthesis of a series of bio conjugates steroids carbohydrates fluoroguinolones was investigated In the last chapter the palladium catalyzed hydrophosphinylation of hypophosphorous acid derivatives to terminal alkynes is reported In an effort to improve the regioselectivity of the reaction various terminal alkynes were tested as well as the solvent and catalyst system Stereoselective Synthesis of Drugs and Natural Products Vasyl Andrushko, Natalia Andrushko, 2013-08-16 Brings together the best tested and proven stereoselective synthetic methods Both the chemical and pharmaceutical industries are increasingly dependent on stereoselective synthetic methods and strategies for the generation of new chiral drugs and natural products that offer specific 3 D structures With the publication of Stereoselective Synthesis of Drugs and Natural Products researchers can turn to this comprehensive two volume work to guide them through all the core methods for the synthesis of chiral drugs and natural products Stereoselective Synthesis of Drugs and Natural Products features contributions from an international team of synthetic chemists and pharmaceutical and natural product researchers. These authors have reviewed the tremendous body of literature in the field in order to compile a

set of reliable tested and proven methods alongside step by step guidance This practical resource not only explores synthetic methodology but also reaction mechanisms and applications in medicinal chemistry and drug discovery The publication begins with an introductory chapter covering general principles and methodologies nomenclature and strategies of stereoselective synthesis Next it is divided into three parts Part One General Methods and Strategies Part Two Stereoselective Synthesis by Bond Formation including C C bond formation C H bond formation C O bond formation C N bond formation Other C heteroatom formation and other bond formation Part Three Methods of Analysis and Chiral Separation References in every chapter serve as a gateway to the literature in the field With this publication as their guide chemists involved in the stereoselective synthesis of drugs and natural products now have a single expertly edited source for all the methods they need Carbon-phosphorus and Oxygen-phosphorus Bond Formation Henry C. Fisher, 2014 The work in this dissertation deals with the continued development of new methodologies for P C and P O bond formation using alternative methods that avoid the use of PCl3 A review of the relevant literature that proceeds this work is presented in Chapter 1 Chapter 2 describes the study of the P III to P V tautomerization of phosphinylidene compounds and the structural influences that effect the thermodynamic and kinetic properties to favor the more reactive P III species A collaboration using both computational and experimental methods show that electron withdrawing groups such as phenyl stabilize the tautomerization of phosphinylidene compounds The second part of this work highlights the influence of various catalysts on P III to P V tautomerization Using computational chemistry as a screening tool a variety of organic acids and bases were tested The calculations and experimental results are in good agreement Chapter 3 describes the work to develop the nickel catalzyed hydrophosphinylation of unactivated alkenes an extension of the work started with the nickel catalyzed hydrophosphinylation of alkynes The results show that nickel chloride is pre activated to an active Ni 0 species and can be stabilized by the inexpensive bisphosphine ligand ethylbis diphenylphosphine dppe The reaction occurs at room temperature and works on a variety of different alkene substrates Other manipulations used in tandem with the initial nickel hydrophosphinylation are highlighted and show the reaction to be a versatile tool for making alkyl H phosphinate derivatives as precursors for further use Chapter 4 details the development of manganese promoted intermolecular and intramolecular additions of alkenes alkynes and aryl compounds with H phosphinates is described The system utilizing catalytic Mn OAc 2 either neat or in DMSO is successful for a variety of different alkenes and two alkyne substrates A more efficient and cost effective system was recently developed for H phosphinate arylations using catalytic Mn OAc 2 and MnO2 as an oxidant and further applied to alkene phosphonochlorination with LiCl In Chapter 5 nickel catalyzed oxidation of alkyl hypophosphites is utilized to prepare ubiquitous alkyl H phosphonates starting from hypophosphorous acid and avoiding the use of PCl3 The reaction can be considered a form of water splitting The studies show that after the intitial esterification step NiCl2 or Ni SiO2 is enough to oxidize the first P H bond to form the desired phosphonate The reaction has been applied to the synthesis

of the global herbicide glyphosate Stereoselective Synthesis Mihály Nógrádi, 2008-07-11 The state of the art in stereoselective synthesis Thoroughly revised and updated this enlarged second edition offers a plethora of valuable information on methods and reagents in stereoselective synthesis Methods have been selected for high efficiency and selectivity mechanistic aspects are treated succinctly with a strong emphasis on practical applications For this new edition material has been added on homogeneous diastereoselective hydrogenations enantioselective oxidations novel efficient chiral auxiliaries Much of the information given is presented in figures and tables which makes the book a valuable reference work for the practically minded organic chemist From reviews of the first edition The extensive material in the volume should prove particularly useful to anyone involved in synthetic chemistry or teaching a course in organic chemistry Journal of Medicinal Chemistry With nearly 1400 references cited the book contains a wealth of information and should be a useful addition to the chemist's library The American Scientist Comprehensive Organic Synthesis, 2014-02-14 The second edition of Comprehensive Organic Synthesis winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry. These themes support effective and efficient synthetic strategies thus providing a comprehensive overview of this important discipline Fully revised and updated this new set forms an essential reference work for all those seeking information on the solution of synthetic problems whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find Comprehensive Organic Synthesis Second Edition Nine Volume Set an invaluable source providing an authoritative overview of core concepts Winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers Contains more than 170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than 10 000 schemes and images Fully revised and updated important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively Organic Reactions. Volume 77, 2012-03-20 This new volume in the venerable Organic Reactions series comprises two chapters written in part by the inventors of the unique and important name reactions discussed in these chapters. The first chapter describes a truly remarkable transformation of carboxylic acid derivatives into heteroatom substituted cyclopropanes now known as Kulinkovich Cyclopropanation The second chapter represents an homage to one of the giants of organic chemistry Sir Derek H R Barton This chapter covers the radical deoxygenation of secondary alcohols that has become known as the Barton McCombie Reaction Organic Reactions, Volume 105, 2021-05-04 The 105th volume in this series for organic chemists in academia and industry presents critical discussions of widely used organic reactions or particular phases of a reaction The material is treated from a preparative viewpoint with emphasis on limitations interfering influences effects of structure and

the selection of experimental techniques The work includes tables that contain all possible examples of the reaction under consideration Detailed procedures illustrate the significant modifications of each method **Organophosphorus**Chemistry György Keglevich, 2018-04-09 Organophosphorus Chemistry presents a groundbreaking resource in this branch of organic chemistry that demonstrates how phosphorus containing compounds can be manipulated in a variety of organic reactions. The authors give an overview of the newest trends and synthesis strategies introduce bioactive and environmentally friendly organophosphorus compounds and show their importance in mainstream organic chemistry

Organic Reactions, Volume 107, 2021-08-25 The 107th volume in this series for organic chemists in academia and industry presents critical discussions of the following widely used organic reactions ENANTIOSELECTIVE HYDROFORMYLATION Toshiki Tazawa Andreas Phanopoulos and Kyoko Nozaki HAUSER KRAUS SAMMES STAUNTON WEINREB AND TAMURA ANNULATIONS Charles B de Koning Kathy Hadje Georgiou Joseph P Michael and Amanda L Organic Reactions, Volume 104, 2021-01-07 The 104th volume in this series for organic chemists in academia Rousseau and industry presents critical discussions of widely used organic reactions or particular phases of a reaction The material is treated from a preparative viewpoint with emphasis on limitations interfering influences effects of structure and the selection of experimental techniques. The work includes tables that contain all possible examples of the reaction under consideration Detailed procedures illustrate the significant modifications of each method Organic Reactions, Parts A and B, Volume 103, 2020-07-23 The 103rd volume in this series for organic chemists in academia and industry presents critical discussions of widely used organic reactions or particular phases of a reaction The material is treated from a preparative viewpoint with emphasis on limitations interfering influences effects of structure and the selection of experimental techniques. The work includes tables that contain all possible examples of the reaction under consideration Detailed procedures illustrate the significant modifications of each method This volume is published in two parts A and B *Carboxylic Ortho Acid Derivatives:* Preparation and Synthetic Applications Robert H. Dewolfe, 2012-12-02 Carboxylic Ortho Acid Derivatives Preparation and Synthetic Applications discusses the principal classes of ortho acid derivatives and their preparation properties and reactions The book is a critical survey and attempts to collate literature regarding the wide array of information on ortho acid derivatives to be of use to chemists studying different sorts of problems The text is divided into seven chapters where Chapter 1 begins with a discussion of the general concepts of carboxylic ortho esters their synthesis and properties Chapters 2 to 4 tackle reactions of ortho esters that result to different bonds and bond formations such as a carbon oxygen and carbon halogen bond b carbon nitrogen or carbon phosphorus and c carbon carbon or carbon hydrogen bond formation Chapter 5 discusses the synthesis properties and applications of carbohydrate ortho esters Related compounds and their properties preparation and chemical transformations are the topic of Chapters 6 and 7 Some of these compounds are trithioorthocarboxylates tetrathioorthocarbonates and amide acetals The book is a valuable reference to students or anyone

else interested in chemistry Organic Reactions, Volume 76 Scott E. Denmark, 2011-12-20 Volume 76 in the venerable Organic Reactions series comprises three chapters that cover the ever increasing emphasis of transition metal catalysis in organic synthesis These three chapters represent some of the most important transformations that enable the construction of carbon carbon bonds heterocycles and carbon heteratom bonds This volume features a comprehensive treatment of transition metal palladium nickel copper catalyzed a arylation of enolates derived from many common functional groups such as ketones aldehydes esters and nitriles Prim Marque Gaucher Campagne including enantioselective variants palladium catalyzed cyclization to form indoles Cacchi Fabrizi Goggiamani one of the most prevalent and important classes of heterocycles in natural products and pharmaceutical agents and an overview of a newly developed dihydroxylation reaction of alkenes Donohoe Bataille Innocenti that uses hydrogen bonding interactions to direct the delivery of an osmium catalyst with high selectivity As with all Organic Reactions chapters these reviews emphasize the preparative aspects of the featured **Advances in Microwave** transformation and contain comprehensive compilations of all known examples in the tables **Chemistry** Bimal K Banik, Debasish Bandyopadhyay, 2018-12-07 Advances in Microwave Chemistry discusses the novel bond formation methodologies synergistic effects of microwaves with other entities sample preparation including digestion combustion and extraction techniques as well as selectivity in chemical processes Recent updates are provided on microwave assisted syntheses of pharmacologically significant aza oxo and other heterocycles including lactams nucleosides bile acids and sterols the preparation of nanomaterials composites and absorber layer materials for thin film This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic inorganic medicinal and green chemistry Key Features Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic inorganic medicinal and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses the biological impact of products formed in reactions pharmacological features and environmental sustainability of the procedures Explains microwave induced reactions on structurally complex bile acids and sterols Stands as a valuable and unique addition to the well established book series New Directions in Organic and Biological Chemistry

Organic Reactions, Volume 100, 2019-12-05 Written by a who is who of leading organic chemists this anniversary volume represent the Organic Reactions editors choice of the most important ground breaking and versatile reactions in current organic synthesis The 15 reaction types selected for this volume include reactions for carbon bond formation cross coupling reactions hydro and halofunctionalizations among many others In line with the successful recipe of the series each chapter is focused on a single reaction discussing its mechanism and stereochemistry scope and limitations applications to synthesis comparison with other methods and experimental procedures Each chapter concludes with a tabular survey of selected key application examples complete with reported reaction conditions and yields to serve as a quick reference guide

for synthesis planning

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