

SECOND EDITION

# Synthesis of Carbon–Phosphorus Bonds



**Robert Engel**  
**JaimieLee Iolani Cohen**



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# Synthesis Of Carbon Phosphorus Bonds

**Robert Engel**

## **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

**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 *Comprehensive Organic Functional Group Transformations* Alan R. Katritzky, Stanley M. Roberts, Otto Meth-Cohn, Charles Wayne Rees, 1995 This Volume covers the formation of carbon carbon single double and triple bonds by substitution and addition reactions as well as by various rearrangements The formation of carbon carbon multiple bonds by elimination and condensation procedures is fully documented In addition the synthesis of carbon hydrogen bonds principally by substitution and addition reactions is featured as is the preparation of a wide variety of carbon centred anions cations and radicals *Inorganic Reactions and Methods, Cumulative Index* A. P. Hagen, A. D. Norman, Jim D. Atwood, 2009-09-17 Here is the comprehensive two volume index to all of the compounds subjects and authors featured in the eighteen volume Inorganic Reactions and Methods series Already deemed invaluable by the Journal of Organometallic Chemistry the series becomes even more essential with the publication of these user friendly quick reference companion indexes **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  $\text{PCl}_3$  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 catalyzed 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  $\text{Mn OAc}_2$

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 *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 silylation 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 fluoroquinolones 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

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1967    **Organometallics in Organic Synthesis** John Melvin Swan,David St. Clair Black,1974    **Inorganic Reactions and Methods** ,1986    A Study of Organophosphorus Chemistry George B. Solleeder,1974    **Synthesis and properties of 5'-deoxynucleoside 5'-phosphonic ac...** Pieter Cornelis Bax,1970    *Synthesis of Phosphorus Containing Pseudopeptide Inhibitors of*

*Folylpolyglutamate Synthetase* David Michael Bartley,2004      Conjugate Addition Reactions in Organic Synthesis P. Perlmutter,1992 This book provides an introduction to the chemistry of conjugate reactions a group of reactions that constitute one of the most important classes of chemical reactions in organic synthesis The book is organised in terms of the major classes of conjugate acceptors Within each of these classes the chemistry and applications of conjugate additions with several different categories of nucleophiles have been examined Where several different nucleophiles achieve the same synthetic transformation they are cross referenced within the book and qualitative comparisons offered where appropriate Examples of the use of conjugate additions in total synthesis of important molecules are included with a special emphasis throughout the book on stereoselectivity This will be a useful main text for graduate and postgraduate courses on conjugate addition reactions or the Michael reaction It could also serve as a supplementary text for courses on topics such as the chemistry of organocopper reagents enamines and carbanion chemistry      *The Synthesis of Novel Epoxyacylphosphonates Designed to Inhibit HIV-1 Reverse Transcriptase* Alan Richard Glabe,1995      **Compounds Containing Phosphorus - Phosphorus Bonds** Alan H. Cowley,1973      Canadian Journal of Biochemistry ,1970      **The Chemistry of Triple-bonded Functional Groups** Saul Patai,Zvi Rappoport,1983      Comprehensive Coordination Chemistry II Jon A. McCleverty,Thomas J. Meyer,2004

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