



# Pentacoordinated Phosphorus Structure And Spectroscopy

**AW Chickering**



## **Pentacoordinated Phosphorus Structure And Spectroscopy:**

*Pentacoordinated Phosphorus: Structure and spectroscopy* Robert Richard Holmes, 1980      Pentacoordinated Phosphorus Robert R. Holmes, 1980      **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 phosphonyl 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      *Organofluorines* A.H. Neilson, 2002-07-03 This volume written by a range of international experts covers a wide range of topics involving organic fluorine compounds Each chapter is preceded by a summary and includes extensive illustrations and references The chapters cover atmospheric chemistry application of  $^{19}\text{F}$  NMR partition degradation and transformation naturally occurring organic fluorine compounds toxicology of perfluoroalkanes and phosphorofluoridates and application of aromatic compounds to the elucidation of the mechanism of cytochrome P450      **Organophosphorus Chemistry 2018** György Keglevich, 2020-03-05 Organophosphorus chemistry is an important discipline within organic chemistry Phosphorus compounds such as phosphines trialkyl phosphites phosphine oxides chalcogenides phosphonates phosphinates and  $\text{P O H}$  species etc may be important starting materials or intermediates in syntheses Let us mention the Wittig reaction and the related transformations the Arbuzov and the Pudovik reactions the Kabachnik Fields condensation the Hirao reaction the Mitsunobu reaction etc Other reactions e g homogeneous catalytic transformations or C C coupling reactions involve P ligands in transition metal Pt Pd etc complex catalysts The synthesis of chiral organophosphorus compounds means a continuous challenge Methods have been elaborated for the resolution of tertiary phosphine oxides and for stereoselective organophosphorus transformations P heterocyclic compounds including aromatic and bridged derivatives P functionalized macrocycles dendrimers and low coordinated P fragments are also of interest An important segment of organophosphorus chemistry is the pool of biologically active compounds that are searched and used as drugs or as plant protecting agents The natural analogue of P compounds may also be mentioned Many new

phosphine oxides phosphinates phosphonates and phosphoric esters have been described which may find application on a broad scale Phase transfer catalysis ionic liquids and detergents also have connections to phosphorus chemistry Green chemical aspects of organophosphorus chemistry e g microwave assisted syntheses solvent free accomplishments optimizations and atom efficient syntheses represent a dynamically developing field Last but not least theoretical approaches and computational chemistry are also a strong sub discipline within organophosphorus chemistry *Dictionary of*

*Organophosphorus Compounds* R. Edmundson, 1987-11-19 **Volume 1: Mechanisms of Inorganic and Organometallic**

**Reactions** M. Twigg, 2012-12-06 During recent years a high level of interest has been maintained in the kinetics and mechanisms of inorganic compounds in solution and there has also been a notable upsurge of literature concerned with reaction mechanisms of organo transition metal compounds The reviews of the primary literature previously provided by Inorganic Reaction Mechanisms Royal Society of Chemistry and Reaction Mechanisms in Inorganic Chemistry in MTP International Reviews of Science Butterworths continue to be of considerable value to those concerned with mechanistic studies and it is unfortunate they are no longer published The objective of the present series is to provide a continuing critical review of literature dealing with mechanisms of inorganic and organometallic reactions in solution The scope of potentially relevant work is very large particularly in the field of organotransition metal chemistry and papers for inclusion have been chosen that specifically probe mechanistic aspects rather than those of a preparative nature This volume covers the literature published during the period July 1979 to December 1980 inclusive Material is arranged basically by type of reaction and type of compound along generally accepted lines Numerical data are usually reported in the units used by the original authors though the units of some results have been converted in order to make comparisons **Advances in**

**Inorganic Chemistry**, 1984-12-05 **Advances in Inorganic Chemistry** **Organo Main Group Chemistry** Kin-ya

Akiba, 2011-08-23 Forging a new association main group elements and organic chemistry Covering the essentials of all main group elements in organic chemistry along with the synthesis and reactions of their organic compounds in just one volume Organo Main Group Chemistry breaks important new ground While main group chemistry has traditionally been classified as part of inorganic chemistry this book establishes the organic chemistry of main group elements for the first time The organic compounds of elements in the second period of the periodic table which are centered around carbon are the major components of animals and plants while those in the third period and below also play key roles worthy of discussion when studying main group element chemistry The major chapters describe synthesis and reactivity of organic compounds in the third period and below and are arranged according to the order of the periodic table Starting with the role of lithium and magnesium cations the chapters reach fluorine and iodine compounds The first two chapters summarize the unique and common characteristics of main group elements in relation to carbon The latter chapters deal with modern topics that address the unique characteristics of organo main group compounds Suitable for professional researchers chemistry

professors and advanced students Organo Main Group Chemistry presents a novel new approach to the way we view both main groups and organic chemistry itself *Pentacoordinated Phosphorus: Reaction mechanisms* Robert Richard Holmes, 1980 **Inorganic Reactions and Methods, The Formation of Bonds to Transition and Inner-Transition Metals** A. P. Hagen, 2009-09-17 Boasting numerous industrial applications inorganic chemistry forms the basis for research into new materials and bioinorganic compounds such as calcium that act as biological catalysts Now complete this highly acclaimed series presents current knowledge in all areas of inorganic chemistry including chemistry of the elements organometallic polymeric and solid state materials and compounds relevant to bioinorganic chemistry Phosphorus D.E.C. Corbridge, 1985-01-01 Phosphorus An Outline of Its Chemistry Biochemistry and Technology Third Edition discusses aspects of phosphorus chemistry organic inorganic biochemical physical environmental and technical This book continues to deal with both basic material and highlights from the previous two editions it also includes a new chapter Chapter 11 devoted exclusively to biochemistry Further discussions on the element has been included in the appendices that cover the literature and nomenclature of phosphorus compounds hazards of common phosphorus compounds properties of white phosphorus phosphine PH<sub>3</sub> and orthophosphoric acid composition of strong phosphoric acids solutions composition of phosphate buffer solutions and atomic data for the elements This text is intended for students with a reasonable knowledge of general chemistry to acquire the necessary groundwork before undertaking detailed searching of the literature or reading highly specialized reviews This edition also serves as a reference text and guide to advanced study for research workers and technologists with interests in related fields **Investigation of Reactions Involving Pentacoordinate Intermediates** Peter A Byrne, 2013-02-01 In this thesis the author outlines the discovery of an effect common to representative examples of all Li salt free Wittig Reactions The implications of such a universally applicable effect are that all such Wittig reactions occur through the same mechanism Although the Wittig reaction was first discovered in 1953 its reaction mechanism has never been definitively settled with many different variants proposed and disproved The work in this thesis shows conclusively that for 2 2 cycloadditions all Wittig reactions occur by the same irreversible mechanism In addition the author also describes a new chromatography free method for the removal of phosphine oxide from the alkene crude product of the Wittig reaction The work in this thesis has led to several publications in high profile journals *The Chemistry of Organophosphorus Compounds, Volume 3*, 1994-03-08 There are four volumes in this series on organophosphorus chemistry a sub series of Saul Patai s Chemistry of Functional Groups series Together the volumes provide comprehensive coverage of the entire organophosphorus area which is critical to main line organic chemistry in both academic and industrial circles The general format of the material on organophosphorus chemistry follows that of the volumes in the Patai series with commissioned chapters on the theoretical structural aspects stereochemistry synthesis photochemistry spectroscopy and biochemistry **Organophosphorus Chemistry** Viktor Iaroshenko, 2019-04-22 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  $^{31}\text{P}$  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

*NMR Spectroscopy in Organic Chemistry* B. I. Ionin, 2012-12-06 In recent years high resolution nuclear magnetic resonance spectroscopy has found very wide application in organic chemistry in structural and physicochemical investigations and also in the study of the characteristics of organic compounds which are related to the distribution of the electron cloud in the molecules The vigorous development of this method which may really be regarded as an independent branch of science is the result of extensive progress in NMR technology the refinement of its theory and the accumulation of large amounts of experimental material which has been correlated by empirical laws and principles The literature directly concerned with the NMR method and its application has now grown to such an extent that a complete review of it is practically impossible Therefore the authors have limited themselves to an examination of only the most important fundamental and general investigations The book consists of six chapters In the first chapter we have attempted to present the fundamentals of the NMR method in such a way that the reader with little knowledge of the subject will be able to use the method in practical work for investigating simple compounds and solving simple problems The three subsequent chapters give a deeper analysis of the method while the last two chapters and the appendix illustrate the various applications of NMR spectroscopy in organic chemistry

**Binary Fluorides** Donald T. Hawkins, 2012-12-06 Coverage For some time we have contemplated a comprehensive review of the structures and force fields of the binary fluorides This bibliography of 1498 references marks the first step of that effort We are publishing this material now rather than waiting until the review is complete some two years hence because we believe that the information already accumulated will be of immediate use to a broad spectrum of researchers Anyone ambitious enough to read through all the articles on binary fluorides will find that the structures and force fields of many of these molecules are at present unknown For example it has not been clearly established to which point groups the lanthanide trifluorides should be assigned There remain interesting problems relating to the role of Jahn Teller and pseudo Jahn Teller distortions in some of the transition metal fluorides such as  $\text{VF}$   $\text{MoF}$   $\text{ReF}$  and  $\text{ReF}$  to name only a few One also finds fascinating examples of large amplitude motions or pseudorotations as they are often called in such molecules as  $\text{XeF}_6$   $\text{IF}_7$  and  $\text{PF}_5$  For those binary fluorides whose equilibrium geometries are precisely known there still exists the problem of accurately determining the harmonic force field

In a few cases most notably the Group VA trifluorides there has been some attempt made at extracting the cubic and quartic contributions to the force field

**The Nature of the Hydrogen Bond** Gastone Gilli, Paola Gilli, 2009-06-25 This book defines for the first time the rules for predicting H bond energies and geometries from the properties of the interacting molecules This new knowledge is used to investigate the molecular mechanisms in systems relevant to chemistry biochemistry pharmacology crystallography and material sciences

**Science of Synthesis** K. M. Błażewska, 2000 New edition of the acclaimed reference series Houben Weyl This new ed is published in English and is available in both print and electronic formats Clear and systematic Science of Synthesis provides practical solutions and offers a route through the mass of information available in the primary literature This one stop reference tool is Comprehensive contains synthetic models selected by world renowned experts with full experimental procedures and background information Reliable the international editorial board is made up of distinguished chemists with unparalleled experience and competence Logical and easy to navigate information is organized in a hierarchical system based on the compound or functional group to be synthesized Authoritative critically evaluates the preparative applicability and significance of the synthetic methods Wide ranging considers methods from journals books and patent literature from the early 1800s up to the present day and presents important synthetic methods for all classes of compounds

*Organophosphorus Chemistry* Lee J Higham, David W Allen, 2024-02-21 This annual review of the literature provides a comprehensive and critical survey of a vast field of study involving organophosphorus compounds ranging from phosphines and their chalcogenide derivatives phosphonium salts and P ylides to tervalent and quinquevalent phosphorus acid derivatives and penta and hexa coordinated phosphorus compounds Recent developments in applications as reagents in green synthetic procedures are also given With an emphasis on interdisciplinary content this book will appeal to the worldwide organic chemistry and engineering research communities

Immerse yourself in heartwarming tales of love and emotion with is touching creation, Tender Moments: **Pentacoordinated Phosphorus Structure And Spectroscopy** . This emotionally charged ebook, available for download in a PDF format ( \*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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