

THE ORGANIC CHEMISTRY  
OF NICKEL

Volume I

ORGANONICKEL COMPLEXES

*P. W. Solly and G. Wilke*

ORGANOMETALLIC CHEMISTRY  
A Series of Monographs

# The Organic Chemistry Of Nickel Volume I Organonickel Complexes

**John Thayer**

## **The Organic Chemistry Of Nickel Volume I Organonickel Complexes:**

*The Organic Chemistry of Nickel: Organic synthesis* P. W. Jolly, Günther Wilke, 1974 Vol 2      **The Organic Chemistry of Nickel** P. W. Jolly, 2012-12-02 The Organic Chemistry of Nickel Volume I Organonickel Complexes is devoted to a description of the organonickel complexes. The major goal is to provide a reference work and for this reason a conventional layout has been adopted with separate chapters devoted to each type of organic ligand. In the interest of readability known compounds have been assembled in tables at the end of each chapter thereby allowing the text to be used for discussions of the general chemistry involved and to highlight the special reactions associated with nickel. Conscious of the needs of organometallic chemists the authors included systems in which no nickel carbon bond is involved. Among these is a chapter on the tetrakisligand nickel complexes and sections on dioxygen and azobenzene complexes. The nitrosyl complexes and complexes containing a metal metal bond topics frequently considered to be part of the domain of the organometallic chemist have not received individual attention. Tables of the observed bond distances in organonickel complexes are provided as an Appendix. A short list of the more important review articles relevant to each organic ligand can be found at the end of each chapter.      *Organonickel complexes* P. W. Jolly, G. Wilke, 1974 Vol 1      **The Organic Chemistry of Nickel** P. W.

Jolly, 2012-12-02 The Organic Chemistry of Nickel Volume II Organic Synthesis describes the chemistry of the organonickel complexes and the use of nickel in organic synthesis. Composed of six chapters this volume starts with discussions on the oligomerization co oligomerization and polymerization of olefins followed by short accounts of the mechanistically related isomerization and hydrogenation of olefins as well as the hydrosilylation and hydrocyanation reactions. Chapter II examines the oligomerization of acetylene and substituted alkynes the co oligomerization of alkynes with olefins the related oligomerization of allene including a number of telomerization reactions involving alkynes or allenes. Chapters III and IV describe the oligomerization co oligomerization and polymerization of butadiene and substituted 1,3 dienes. Chapter V explores the coupling of organic halides in the presence of stoichiometric amounts of zerovalent nickel complexes and the nickel catalyzed cross coupling reaction between organic halides and Grignard reagents. Lastly Chapter VI emphasizes the carbonylation of alkynes olefins and organic halides using nickel complexes. This book will be of great value to organic chemists and researchers who are interested in the application of nickel complexes to organic synthesis.      **Organic synthesis** P. W. Jolly, G. Wilke, 1975      **Organometallic Compounds and Living Organisms** John Thayer, 2012-12-02

Organometallic Compounds and Living Organisms provides information pertinent to the fundamental aspects of organometallic compounds and living organisms. This book discusses the biological effects of organometallic compounds. Organized into 10 chapters this book begins with an overview of the recognition of methylmercuric compounds as the causative agents of Minamata disease which has generated intensive research of their toxic effects. This text then examines the number of investigative applications of the biological inertness of silicones. Other chapters consider the capacity of many

organometals to deactivate enzymes which makes these compounds very useful for studying the nature of the enzyme active site This book discusses as well the use and preparation of organometallurium compounds as imaging agents The final chapter deals with the formation and cleavage of metal loid carbon bonds which play significant roles in the environmental transformation and circulation of metal loids This book is a valuable resource for chemists

The organic chemistry of nickel P. W. Jolly, Günther Wilke, 1974

**The Organic Chemistry of Iron** Ernst A. Koerner von Gustorf, Friedrich-Wilhelm Grevels, Ingrid Fischler, 1978

*Organochromium compounds* R. Sneeden, 2012-12-02 Organochromium Compounds is a three chapter text that covers the major developments in the preparation characterization and reaction of the five main classes of organochromium compounds These classes include the chromium and solvated sodium and lithium poly organo chromate III and II complexes carbenoid chromium solvated bonded organochromium III and II solvated sodium and lithium poly organo chromate III and II complexes and unsolvated bonded tetra organo chromium IV compounds This book will be of value to organic chemists and researchers who are interested in organotransition metal chemistry

**Organometallic**

**Reaction Mechanisms Of The Nontransition Elements** Donald Matteson, 2012-12-02 Organometallic Reaction

Mechanisms of the Nontransition Elements provides selected significant developments in organometallic reaction mechanisms and outlines a self consistent set of interpretations of these mechanisms This book is organized into eight chapters and begins with discussions on bonding in theoretically important types of organometallic compounds and the potential surfaces and their relation to mechanisms This is followed by significant chapters on electrophilic displacement reactions Polar 1 2 addition and elimination reactions are covered in a separate chapter Radical and photochemical reactions are described in the concluding chapters of the book including the reverse reaction involving incorporation of a free metal and an organic halide into an organometallic compound Organic chemists and researchers will find this book invaluable

**Organic Synthesis** Peter W. Jolly, Günther Wilke, 1975

**The Chemistry of Cyano Complexes of the Transition**

**Metals** A. G. Sharpe, 1976

**13C NMR Data for Organometallic Compounds** Brian E. Mann, Brian F. Taylor, 1981

**Organometallic Chemistry**, 1976 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry main group chemistry the lanthanides and all aspects of transition metal chemistry Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments

in chemistry which originally took the form of Annual Reports. However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a must. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume. New Applications of Organometallic Reagents in Organic Synthesis Dietmar Seydel, American Chemical Society, 1976.

**Organoborane Chemistry** Thomas Onak, 1975. Organoborane Chemistry deals with the chemistry of organoboranes with emphasis on compounds containing a carbon-boron bond. The structure and physical properties of organoboranes are discussed along with the reactions of three coordinate and four coordinate organoboranes, organodiboranes and other organopolyboranes such as organotetraboranes and organopentaborane compounds. Comprised of seven chapters, this book begins with an overview of multistep synthetic or degradative reactions involving organoboron compounds along with the nomenclature for such compounds. The next chapter examines the structure and physical properties of organoboranes with emphasis on boron-carbon bond lengths, electronic transitions and molecular orbital calculations. Subsequent chapters focus on three coordinate and four coordinate organoboranes together with their synthesis, reactions and properties; hydroboration and dehydroboration of organodiboranes and the synthesis, reactions and physical properties of other organopolyboranes such as organotetraboranes, organopentaborane compounds and organodecaborane compounds. The final chapter is devoted to cyclic boron-carbon systems and the applications of organoboron compounds. This monograph should be of interest to organic chemists. Transition Metal Complexes of Cyclic Polyolefins G. Deganello, 1979. Organotransition Metal Chemistry Richard F. Heck, 1974. Organotransition Metal Chemistry: A Mechanistic Approach. **Nickel: Mononuclear compounds** Peter W. Jolly, 1993. Organometallic and Coordination Chemistry of Platinum Umberto Bellucci, T. Boschi, 1974.

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