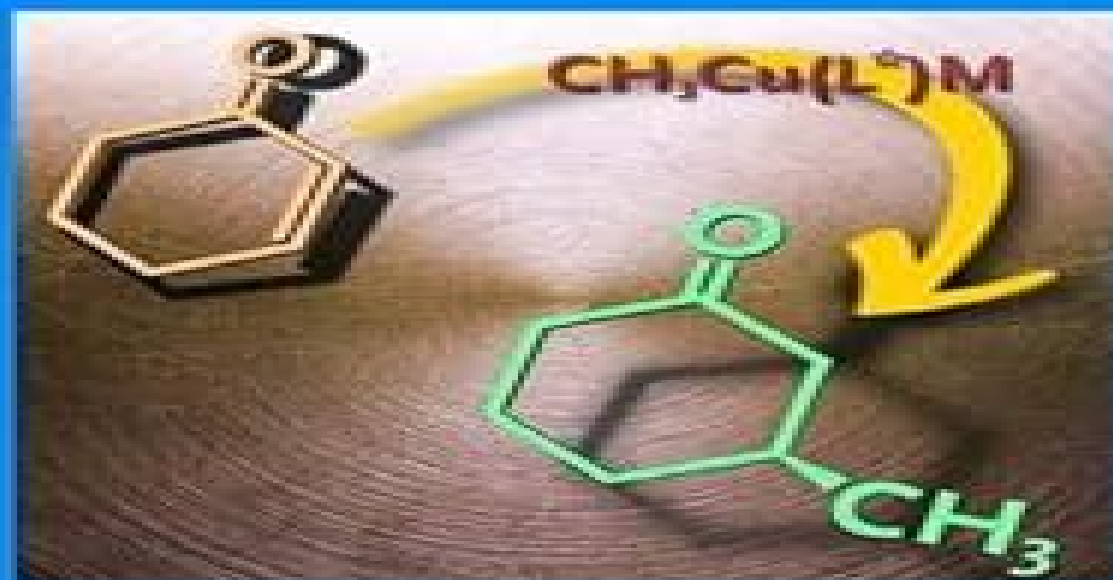


# Modern Organocopper Chemistry

Edited by Norbert Krause



# Modern Organocopper Chemistry

**Pher G. Andersson, Ian J. Munslow**



## **Modern Organocopper Chemistry:**

**Modern Organocopper Chemistry** Norbert Krause, 2002 Organocopper compounds are now an integral part of every modern synthesis laboratory allowing important stages of synthesis to be carried out in an elegant fashion Yet a certain amount of experience is needed if they are to be used effectively Non experts in the field often have difficulty in choosing the most suitable reagent for a particular substrate and the prerequisites for the reaction This manual edited by Norbert Krause answers such questions since it contains all the useful tips and tricks on organocopper compounds information gained from personal experience by the international team of authors This allows those working in laboratories in both academia and industry to determine the optimal reagent for their needs using the substrates available for reaction and the desired products The result is a more effective use of these synthesis tools in everyday laboratory practice The Chemistry of Organocopper Compounds Zvi Rappoport, Ilan Marek, 2009-12-21 Copper in organic synthesis has seen a tremendous development over the past ten years This text represents the most comprehensive survey on the use of Copper and Cuprates in organic synthesis The first time that the Patai Series touches on Copper compounds it contains contributions by leading experts and delivers the quality expected from the Patai Series International Symposium on Modern Organocopper Chemistry Norbert Krause, Universität Dortmund Fachbereich Chemie Lehrstuhl für Anorganische Chemie 2, 2002 Modern Organic Synthesis George S. Zweifel, Michael H. Nantz, Peter Somfai, 2017-03-09 This book bridges the gap between sophomore and advanced graduate level organic chemistry courses providing students with a necessary background to begin research in either an industry or academic environment Covers key concepts that include retrosynthesis conformational analysis and functional group transformations as well as presents the latest developments in organometallic chemistry and C C bond formation Uses a concise and easy to read style with many illustrated examples Updates material examples and references from the first edition Adds coverage of organocatalysts and organometallic reagents **Modern Organoaluminum Reagents** Simon Woodward, Samuel Dagorne, 2012-11-14 Janusz Lewiński and Andrew E H Wheatley Simple trivalent organoaluminum species perspectives on structure bonding and reactivity Stephan Schulz Organoaluminum complexes with bonds to s block p block d block and f block metal centers Samuel Dagorne and Christophe Fliedel Low valent organoaluminum I II species Rudolf Wehmschulte Organoaluminum species in homogeneous polymerization catalysis Paul Knochel Tobias Blumke Klaus Groll and Yi Hung Chen Preparation of Organoalanes for Organic Synthesis Yuki Naganawa and Keiji Maruoka Reactions Triggered by Lewis Acidic Organoaluminum Species Usein M Dzhemilev and Vladimir A D yakonov Hydro Carbo and Cycloalumination of Unsaturated Compounds Andreas Kolb and Paultheo von Zezschwitz Organoaluminum Couplings to Carbonyls Imines and Halides Oscar P mies and Montserrat Di guez Conjugate Addition of Organoaluminum Species to Michael Acceptors and Related Processes Modern Enolate Chemistry Manfred Braun, 2016-02-23 Authored by one of the world's leading synthetic chemists in the field this reference presents modern enolate chemistry with an emphasis on metal O enolates in

asymmetric synthesis While great care is taken to cover novel successful concepts such classical methods as the famous Evans enolates are equally highlighted Throughout the book representative reaction procedures are presented thus helping readers to find the best solution for their own synthetic problem Of high interest to synthetic chemists in academia as well as the pharmaceuticals agrochemicals and fine chemicals industries

**Hydrosilylation** Bogdan Marciniec, 2008-11-09 For fifty years Hydrosilylation has been one of the most fundamental and elegant methods for the laboratory and industrial synthesis of organosilicon and silicon related compounds Despite the intensive research and continued interest generated by organosilicon compounds no comprehensive book incorporating its various aspects has been published this century The aim of this book is to comprehensively review the advances of hydrosilylation processes since 1990 The survey of the literature published over the last two decades enables the authors to discuss the most recent aspects of hydrosilylation advances catalytic and synthetic and to elucidate the reaction mechanism for the given catalyst used and the reaction utilization New catalytic pathways under optimum conditions necessary for efficient synthesis of organosilicon compounds are presented This monograph shows the extensive development in the application of hydrosilylation in organic and asymmetric syntheses and in polymer and material science

**Modern Reduction Methods** Pher G. Andersson, Ian J. Munslow, 2008-09-08 With its comprehensive overview of modern reduction methods this book features high quality contributions allowing readers to find reliable solutions quickly and easily The monograph treats the reduction of carbonyles alkenes imines and alkynes as well as reductive aminations and cross and heck couplings before finishing off with sections on kinetic resolutions and hydrogenolysis An indispensable lab companion for every chemist

**Copper-Catalyzed Asymmetric Synthesis** Alexandre Alexakis, Norbert Krause, Simon Woodward, 2013-12-30 This book reflects the increasing interest among the chemical synthetic community in the area of asymmetric copper catalyzed reactions and introduces readers to the latest most significant developments in the field The contents are organized according to reaction type and cover mechanistic and spectroscopic aspects as well as applications in the synthesis of natural products A whole chapter is devoted to understanding how primary organometallics interact with copper to provide selective catalysts for allylic substitution and conjugate addition both of which are treated in separate chapters Another is devoted to the variety of substrates and experimental protocols while an entire chapter covers the use on non carbon nucleophiles Other chapters deal with less known reactions such as carbometallation or the additions to imines and related systems while the more established reactions cyclopropanation and aziridination as well as the use of copper II Lewis acids are warranted their own special chapters Two further chapters concern the processes involved as determined by mechanistic studies Finally a whole chapter is devoted to the synthetic applications This is essential reading for researchers at academic institutions and professionals at pharmaceutical or agrochemical companies

**Transition Metal Catalyzed Enantioselective Allylic Substitution in Organic Synthesis** Uli Kazmaier, 2011-10-28 Giovanni Poli Guillaume Prestat Fr d ric Liron Claire Kammerer Pentier

Selectivity in Palladium Catalyzed Allylic Substitution Jonatan Kleimark and Per Ola Norrby Computational Insights into Palladium mediated Allylic Substitution Reactions Ludovic Milhau Patrick J Guiry Palladium catalyzed enantioselective allylic substitution Wen Bo Liu Ji Bao Xia Shu Li You Iridium Catalyzed Asymmetric Allylic Substitutions Christina Moberg Molybdenum and Tungsten Catalyzed Enantioselective Allylic Substitutions Jean Baptiste Langlois Alexandre Alexakis Copper catalyzed enantioselective allylic substitution Jeanne Marie Begouin Johannes E M N Klein Daniel Weickmann B Plietker Allylic Substitutions Catalyzed by Miscellaneous Metals Barry M Trost Matthew L Crawley Enantioselective Allylic Substitutions in Natural Product Synthesis *Comprehensive Organic Functional Group Transformations II*, 2004-12-16

*Comprehensive Organic Functional Group Transformations II* COFGT II will provide the first point of entry to the literature for all scientists interested in chemical transformations Presenting the vast subject of organic synthesis in terms of the introduction and interconversion of all known functional groups COFGT II provides a unique information source documenting all methods of efficiently performing a particular transformation Organised by the functional group formed COFGT II consists of 144 specialist reviews written by leading scientists who evaluate and summarise the methods available for each functional group transformation Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) By systematically treating each functional group in turn the work also identifies what is not known thus pointing the way to new research areas Follows the systematic layout of the successful 1995 COFGT reference work based on the arrangement and bonding of hetero atoms around a central carbon atom The work will save researchers valuable time in their research as each chapter is written by experts who have critically read and reviewed the literature and presented the best methods of forming every known functional group *Comprehensive Medicinal Chemistry II* David J Trigg, John B Taylor, 2006-12-29

The first edition of *Comprehensive Medicinal Chemistry* was published in 1990 and was very well received *Comprehensive Medicinal Chemistry II* is much more than a simple updating of the contents of the first edition Completely revised and expanded this new edition has been refocused to reflect the significant developments and changes over the past decade in genomics proteomics bioinformatics combinatorial chemistry high throughput screening and pharmacology and more The content comprises the most up to date authoritative and comprehensive reference text on contemporary medicinal chemistry and drug research covering major therapeutic classes and targets research strategy and organisation high throughput technologies computer assisted design ADME and selected case histories It is this coverage of the strategy technologies principles and applications of medicinal chemistry in a single work that will make *Comprehensive Medicinal Chemistry II* a unique work of reference and a single point of entry to the literature for pharmaceutical and biotechnology scientists of all disciplines and for many industry executives as well Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal

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New Methodologies and Techniques for a Sustainable Organic Chemistry Alessandro Mordini, Ferenc Faigl, 2008-04-17

Chemical industries have to face the big challenge of finding adequate processes to produce large quantities of new products for which there is a present need decreasing at the same time both the impact on the environment and the risk of disasters These issues have led to the establishment of new concepts of sustainable development as affirmed in the Rio Declaration on Environment and Development in the early 90's and has been the subject of intensive studies in the last two decades The book addresses this challenge collecting the recent New Methodologies and Techniques for a Sustainable Organic Chemistry It provides a wealth of information in the fields of New efficient and selective catalytic processes Use of non usual media or environmentally benign reagents New selective and efficient synthetic methods New techniques based on alternative energy sources All these topics are covered in 15 chapters written by world renowned experts in these fields who were the lecturers of the NATO ASI NeMeTOC 2005 Siena Since some of the authors have an industrial background the book helps to answer virtually any questions which may arise during the development of a new environmentally benign organic process

**Classics in Stereoselective Synthesis** Erick M. Carreira, Lisbet Kvaerno, 2009-02-09 This book provides a noteworthy compilation of the groundbreaking methods of stereoselective synthesis belonging to the repertoire of every modern practitioner of synthetic organic chemistry The general principles underlying these processes are highlighted as they form the basis for the rapid and continuing developments in the field The work also features illustrative examples of drug and natural product syntheses resulting in a rich source of stimulating ideas for the efficient use of asymmetric reactions in the construction of stereochemically complex structures From the contents Macrocyclic stereocontrol Carbonyl addition reactions  $\alpha$  Functionalization of enolates Aldol and allylation reactions Chiral acetals Alkene hydroboration reduction and oxidation Additions to C-N bonds and synthesis of amino acids Conjugate additions Chiral carbanions Metal catalyzed allylations Cyclopropanations and CH insertion reactions Sigmatropic rearrangements Diels Alder and hetero Diels Alder reactions 3,2 and 2,2 cycloaddition reactions

The Chemistry of Organomagnesium Compounds, 2 Volume Set Zvi Rappoport, Ilan Marek, 2008-04-30 Magnesium remains almost unique among the metals in its ability to react directly with a wide variety of compounds This organic chemistry field has seen steady progress and a volume on this topic is long overdue In the tradition of the Patai Series this title treats all aspects of functional groups containing chapters on the theoretical and computational foundations on analytical and spectroscopic aspects with dedicated chapters on Mass Spectrometry NMR IR

UV etc on reaction mechanisms on applications in syntheses Depending on the functional group there are also chapters on industrial use on effects in biological and or environmental systems Since the area of Organomagnesium Chemistry continues to grow far beyond the classical Grignard Reagents this is an essential resource to help the reader keep abreast of the latest developments

*Quaternary Stereocenters* Jens Christoffers,Angelika Baro,2006-05-12 Filling the gap in the literature this book presents everything there is to know about this topic By comprehensively covering the quaternary stereocenters found in a range of important and useful molecules in pharmaceutical and medicinal applications as well as in thousands of natural products the book provides the know how chemists need to synthesize challenging molecules with numerous applications A must for organic chemists in academia the pharmaceutical industry and medicine From the Contents Important Natural Products Important Pharmaceuticals and Intermediates Aldol Reactions Michael Reactions and Conjugate Additions Cycloaddition Reactions Rearrangement Reactions Alkylation of Ketones and Imines Asymmetric Allylic Alkylation Asymmetric Cross Coupling and Heck Reactions Phase Transfer Catalysis Enzymatic Methods Radical Reactions

**Radicals in Synthesis III** Markus Heinrich,Andreas Gansäuer,2012-02-22 Boron Doped Diamond Electrodes for Electroorganic Chemistry by Siegfried R Waldvogel Stamo Mentizi und Axel Kirste Modern Developments in Aryl Radical Chemistry by Gerald Pratsch und Markus R Heinrich Radical Additions to Chiral Hydrazones Stereoselectivity and Functional Group Compatibility by Gregory K Friestad Hydrogen Atom Donors Recent Developments by Andreas Gans uer Lei Shi Matthias Otte Inga Huth Antonio Rosales Iris Sancho Sanz Natalia M Padial und J Enrique Oltra Radicals in Transition Metal Catalyzed Reactions Transition Metal Catalyzed Radical Reactions A Fruitful Interplay Anyway Part 1 Radical Catalysis by Group 4 to Group 7 Elements by Ullrich Jahn Radicals in Transition Metal Catalyzed Reactions Transition Metal Catalyzed Radical Reactions A Fruitful Interplay Anyway Part 2 Radical Catalysis by Group 8 and 9 Elements by Ullrich Jahn Radicals in Transition Metal Catalyzed Reactions Transition Metal Catalyzed Radical Reactions A Fruitful Interplay Anyway Part 3 Catalysis by Group 10 and 11 Elements and Bimetallic Catalysis by Ullrich Jahn

**Innovative Catalysis in Organic Synthesis** Pher G. Andersson,2012-05-14 C H C O C C and C Heteroatom bond forming processes by using metal ligand approaches for the synthesis of organic compounds of biological pharmacological and organic nanotechnological utility are the key areas addressed in this book Authored by a European team of leaders in the field it brings together innovative approaches for a variety of catalysis reactions and processes frequently applied in organic synthesis into a handy reference work It covers all major types of catalysis including homogeneous heterogeneous and organocatalysis as well as mechanistic and computational studies Special attention is paid to the improvements in efficiency and sustainability of important catalytic processes such as selective oxidations hydrogenation and cross coupling reactions and to their utilization in industry The result is a valuable resource for advanced researchers in both academia and industry as well as graduate students in organic chemistry aiming for chemo regio or stereoselective synthesis of organic compounds by using novel catalytic systems

**Transition Metals in the Synthesis of Complex Organic Molecules** Louis S. Hegedus, Bjorn Söderberg, 2009-07-29

This title is written for organic chemists and offers an easy entry into the field of organotransition metal chemistry without requiring a background in inorganic chemistry The third edition of Transition Metals in the Synthesis of Complex Organic Molecules is a comprehensive revision and significant expansion of the second edition The clear and systematic approach to the formation manipulation and reactivity of organometallic complexes has been maintained The book is divided into 10 chapters starting with general formalisms electron counting and basic principles of organometallic reaction mechanisms The organic chemistry of transition metals is then presented by class of metal complex with many examples of applications in the synthesis of complex natural products and pharmaceuticals The book is ideal for advanced undergraduate and graduate students as well as all practicing synthetic organic chemists It is written for organic chemists and offers an easy entry into the field of organotransition metal chemistry without requiring a background in inorganic chemistry **Catalyst**

**Components for Coupling Reactions** Gary A. Molander, 2013-05-30 The long awaited Handbook for all synthetic chemists working on coupling reactions compiling all major catalyst components in use in the area Consists of a compilation of articles taken from the EROS database with the inclusion of about 20 newly commissioned catalysts pre catalysts ligands that have made an impact in this area of synthetic organic chemistry Includes catalyst systems used in Heck Kumada Tamao Corriu Suzuki Miyaura Hiyama Hatanaka Negishi Migita Kosugi Stille Buchwald Hartwig and Tsuji Trost coupling reactions



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