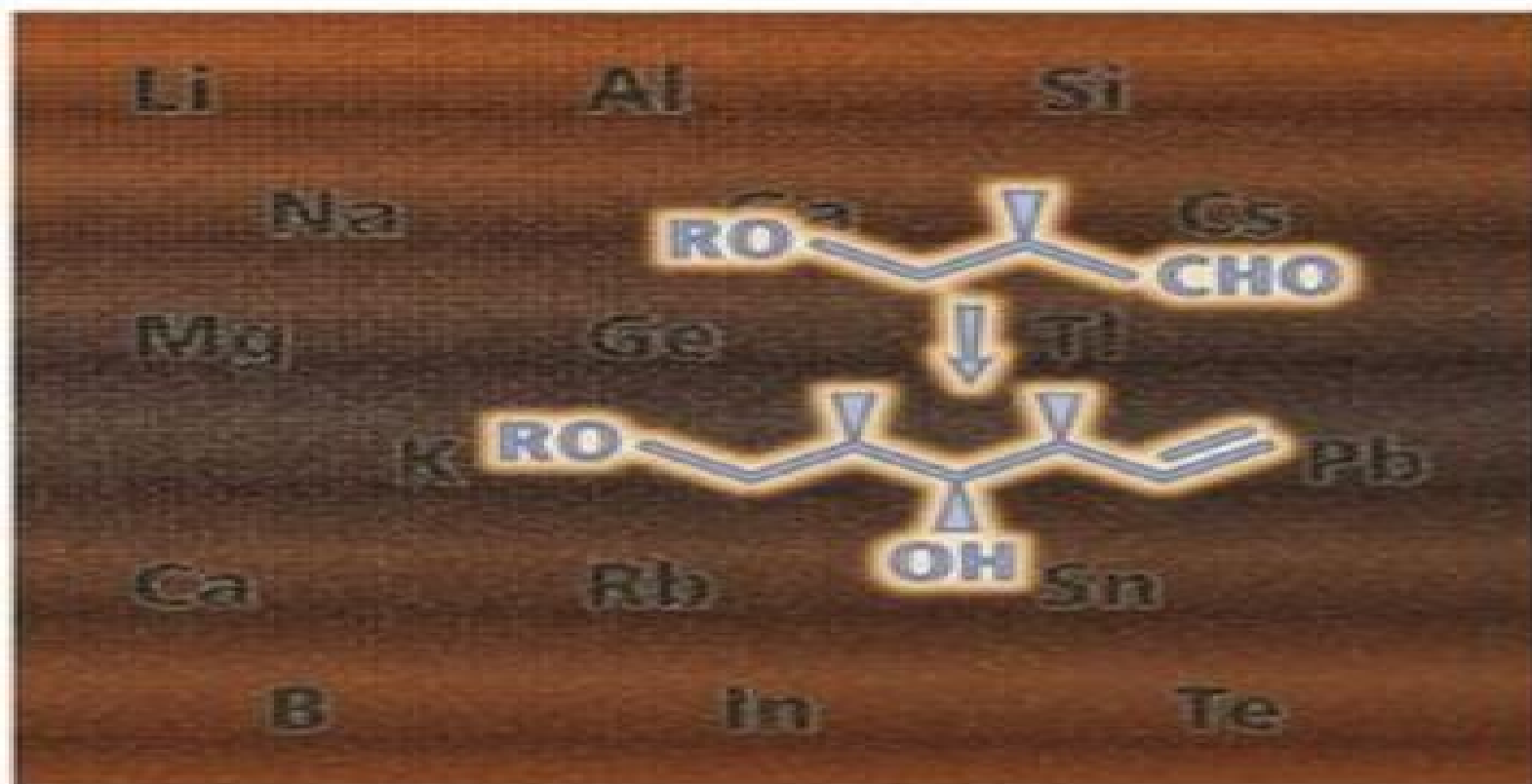


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Main Group Metals in Organic Synthesis



Main Group Metals In Organic Synthesis

Barry M. Trost, Chao-Jun Li



Main Group Metals In Organic Synthesis:

Main Group Metals in Organic Synthesis Hisashi Yamamoto, Koichiro Oshima, 2006-03-06 This is the first handbook to cover in detail all aspects of this fascinating field of chemistry In this handy two volume set readers will instantly find the information they need clearly structured according to the individual metals in the main groups hitherto only accessible after much time consuming research The result is an indispensable aid for everyday work in the lab Alongside all the classical organic reactions this book focuses on the modern variations as well as novel current reactions in organic synthesis that are closely linked to main group elements both stoichiometric and catalytic With this work the two prizewinning editors have succeeded in producing a comprehensive compendium of the main group metals as reagents for organic reactions In short this is a must for every organic chemist whether as an efficient introduction to current research for retaining an overview or for looking up detailed information

Main-Group Metal Organometallics in Organic Synthesis A. McKillop, 2004-09-16 The individual chapters in this volume cover the scope and impact of main group organometallic compounds and reagents on organic synthesis during the last ten to fifteen years In a number of chapters topics are dealt with in detail that either were not covered at all in COMC eg selenium tellurium or were given scant attention eg oxymercuration organoantimony compounds Certain topics like directed metallation and LiKOR bases have only achieved prominence in synthesis in the last ten years and are now reviewed by leading experts

Organometallic Chemistry E. W. Abel, F. G. A. Stone, 1982 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 *Advances in Organometallic Chemistry* Pedro J. Perez, 2018-10-25 *Advances in Organometallic Chemistry* Volume 70 contains authoritative review articles of worldwide known researchers in the field of organometallic chemistry This longstanding serial is known for its comprehensive coverage of topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more It is ideal for a wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications Topics of note in this new release include Carbon Dioxide Electroreduction Catalyzed by Organometallic Complexes Single electron Elementary Steps in Homogeneous Organometallic Catalysis Recent advances in catalytic hydrosilylation of carbonyl groups mediated by well defined first row late transition metals and more Contains contributions from leading authorities in the field of organometallic chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on the latest developments in the field Carefully edited to provide easy to read material Organometallics in Organic Synthesis Ei-ichi Negishi, 1980-04-25 Bridges the gap between the typical organic and organometallic texts by providing a current overall description of the chemistry of organometallics in organic synthesis in a digested form Offers a highly systematic and logical account of virtually all the important aspects of the use of organometallics in organic synthesis Primarily treats the reactant product relationship as well as some tentative but reasonable interpretations provided by the authors of individual papers and the author of this book Over 1 200 references are cited along with the great majority of relevant reviews and monographs Handbook of Organopalladium Chemistry for Organic Synthesis Ei-ichi Negishi, Armin de Meijere, 2003-11-24 Organized to provide maximum utility to the bench synthetic chemist The editor is well known for his work in exploring developing and applying organopalladium chemistry Contributors include over 24 world authorities in the field **Reagents for Radical and Radical Ion Chemistry** David Crich, 2013-05-30 Radicals and radical ions are important intermediates with wide use in organic synthesis The first book to concentrate on reagents for the creation and use of radicals and radical ions this new volume in the Handbooks of Reagents for Organic Synthesis series compiles articles taken from the e eros database on reagents for use in radical and radical chemistry to help the chemist in the lab choose the right reagents Reflecting the enormous growth of radical chemistry over the past ten years this is an essential guide for all synthetic chemists **Aldol Reactions** Rainer Mahrwald, 2009-05-15 *Aldol Reactions* provides a comprehensive up to date overview of aldol reactions including application of different metal enolates catalytic aldol additions catalyzed by different Lewis acids and Lewis bases enantioselective direct aldol additions antibodies and enzyme catalyzed aldol additions and the recent aggressive development of organocatalyzed aldol additions The power of each method is demonstrated by several applications in total synthesis of natural products The pros and cons of these methodologies with regard to stereoselectivity regioselectivity and application in total synthesis of natural products are discussed Great importance is set to the diverse

possibilities of the manual of aldol reaction to install required configurations in complicated natural product synthesis

Pb

Organolead Compounds Friedo Huber, 2013-06-29 This volume is exclusively devoted to tetramethyllead. Owing to the recent large scale use as an antiknock agent its application toxicological biological and environmental aspects are given much attention besides its chemical and physical properties Literature coverage up to 1986

Electro-catalysis At Chemically Modified Solid Surfaces Jacques Simonet, 2017-10-13 This book documents Professor Jacques Simonet's contribution to building new electrode materials and their related catalytic reactions Research includes synthesis of new alloys of palladium discovery of new composite electrodes including gold and silver graphene and the creation of new materials through judicious cathodic or anodic doping Additionally studies demonstrate the malleability and reactivity of previously unused precious and semi precious metals for the creation of 2D and 3D catalytic materials Studies key to innovative research show how transition metals may reversibly cathodically insert small size electro active molecules such as CO₂ and O₂ and be applied to methods of depollution brought by carbon and nitrogen oxides Written for practical use Simonet has provided both theory and tools needed for those aiming to recreate and develop his experiments in electrochemical catalysis and surface modifications This full publication of research gives graduate and post graduate students of chemistry electrochemistry and catalysis an in depth insight into key historical and modern developments in the field

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer, 2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

Early Main Group Metal Catalysis Sjoerd Harder, 2020-04-06 Early Main Group Metal Catalysis gives a comprehensive overview of catalytic reactions in the presence of group 1 and group 2 metals Chapters are ordered to reaction type contain educational elements and deal with concepts illustrated by examples that cover the main developments After a short introduction on polar organometallic chemistry and synthesis of early main group metal complexes a variety of catalytic reactions are described e.g. polymerization of alkenes hydroamination and phosphination reactions hydrosilylation hydroboration and hydrogenation catalysis as well as enantioselective and Lewis acid catalysis The book addresses organic chemists and researchers in industry interested in the state of the art and new possibilities of early main group metal catalysis as well as newcomers to the field Written by a team of leaders in the field it is a very welcome addition to the area of main group metal chemistry and to the field of catalysis

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

Hydrogen Systems T. Nejat Veziroglu, 2013-10-08 Hydrogen Systems Volume I is a collection of papers presented at the International Symposium on Hydrogen Systems held in Beijing China on May 7 11 1985 The symposium provided a forum for reviewing the state of the art in hydrogen systems as an alternative source of energy The discussions are organized around the following themes hydrogen from fossil fuels electrolysis photolytic hydrogen generation thermo and photochemical methods of hydrogen production hydrogen from hydrogen sulfide catalysts bio production of hydrogen novel and hybrid methods of hydrogen production hydrogen storage and handling metal titanium lanthanum and light hydrides and hydrogen utilization Comprised of 53 chapters this volume first deals with central place theory and the dominance of hydrogen as an energy carrier followed by a detailed account of hydrogen production from fossil fuels such as coal and petroleum coke The reader is systematically introduced to photoelectrocatalytic splitting of water into hydrogen by doping sandwich semiconductor photoelectrodes and visible light induced formation of hydrogen from hydrogen sulfide Subsequent chapters explore the photocatalytic cleavage of water on noble metal photocatalysis with particular reference to hydrogen generation through photoinduced reduction of water and oxygen generation through photoinduced oxidation of water hydrogen production using an immobilized co culture of anaerobic and photosynthetic bacteria and storage and handling of liquid hydrogen in automotive vehicles This monograph will be of interest to scientists engineers environmentalists and energy planners

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 *Modern Alkyne Chemistry* Barry M. Trost, Chao-Jun Li, 2015-02-09 A comprehensive and up to date overview of alkyne chemistry taking into account the progress made over the last two decades The experienced editors are renowned world leaders in the field while the list of contributors reads like a Who's Who of synthetic organic chemistry The result is a valuable reference not only for organic chemists at universities and in the chemical industry but also for biologists and material scientists involved in the modern synthesis of organic compounds and materials

Hydrocarbon Chemistry, 2 Volume Set George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-10-02 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists *Angewandte Chemie* and useful for chemical engineers as well as engineers in the chemical and petrochemical industries *Petroleum Science and Technology*

Organotin Chemistry Alwyn G. Davies, 2006-03-06 At long last The second completely revised edition of this comprehensive standard reference Alwyn G. Davies has updated the contents of his book to reflect the current state of research into organotin chemistry He covers all aspects in detail such as its synthesis characterization structures and applications while also devoting space to such hot topics as environmental issues This new edition also includes a CD ROM with more than 5 000 references making this database an invaluable tool for everyone working in the field The text is well written extremely accessible and very comprehensive particularly impressive is the inclusion of up to the minute references in these areas *Advanced Materials* 13 1998 The standard of production is very good with well structured tables and an abundance of clear formula schemas which enable the reader to quickly grasp the essence of the text *Angewandte Chemie* 16 1997

Organic Syntheses, Volume 100 Neil K. Garg, 2024-08-06 The current volume continues the tradition of the *Organic Syntheses* series providing carefully checked and edited experimental procedures that describe important synthetic methods transformations reagents and synthetic building blocks or intermediates with demonstrated utility in organic synthesis These significant and interesting procedures should prove worthwhile to many synthetic chemists working in increasingly diverse areas A trusted guide for professionals in organic and medicinal chemistry in academia government and industries including pharmaceuticals fine chemicals agrochemicals and biotechnological products *Cleavage of Carbon-Carbon Single Bonds by Transition Metals* Masahiro Murakami, Naoto Chatani, 2015-09-21 Edited by leading experts and pioneers in the field this is the first up to date

book on this hot topic The authors provide synthetic chemists with different methods to activate carbon carbon sigma bonds in organic molecules promoted by transition metal complexes They explain the basic principles and strategies for carbon carbon bond cleavage and highlight recently developed synthetic protocols based on this methodology In so doing they cover cleavage of C C bonds in strained molecules reactions involving elimination of carbon dioxide and ketones reactions via retroallylation and cleavage of C C bonds of ketones and nitriles The result is an excellent information source for researchers in academia and industry working in the field of synthetic organic chemistry while equally serving as supplementary reading for advanced courses in organometallic chemistry and catalysis

This book delves into Main Group Metals In Organic Synthesis. Main Group Metals In Organic Synthesis is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Main Group Metals In Organic Synthesis, encompassing both the fundamentals and more intricate discussions.

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- Chapter 4: Main Group Metals In Organic Synthesis in Specific Contexts
- Chapter 5: Conclusion

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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Main Group Metals In Organic Synthesis.

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