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***Metal Promoted
Selectivity
in Organic
Synthesis***

***Edited by
A. F. Noels, M. Graziani
and A. J. Hubert***

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Metal Promoted Selectivity In Organic Synthesis

M. Santelli, J.-M. Pons



Metal Promoted Selectivity In Organic Synthesis:

Metal Promoted Selectivity in Organic Synthesis A. Noels, M. Graziani, A.J. Hubert, 2012-09-24 The demand for selective organic reactions is growing more acute everyday. Indeed, greater product selectivity has an important impact on energy and resource utilization in terms of reduced process energy requirements for product separation and purification in terms of low value by products and in terms of environmental acceptance and compatibility. Moreover, more and more chemicals, especially pharmaceuticals, have to be sold in an optically active form. The search for selectivity constitutes a tremendous challenge for the chemists. In the last two decades, homogeneous transition metal based catalysis has emerged as one of the most promising tools for obtaining selectivity. In connection with developments in this area, this book contains updated and expanded versions of most of the lectures presented at a Cornett course held in Trieste, Italy, in 1989 and sponsored by the European Community. A primary aim is to cultivate a deeper understanding of the parameters that govern the selectivities and stimulate a wider utilization of transition metal based catalysis in organic synthesis. All aspects of selectivity: chemo, regio, stereo and enantioselectivity are considered and illustrated by applications in various fields of organic synthesis. The impact of catalysis in oxidation, reduction, carbonylation reactions, carbene chemistry in Ni and Pd promoted dimerizations, oligomerizations as well as functionalisations is stressed quite often with special emphasis laid on reaction mechanisms. In this aspect, the last chapter exemplifies the interest of high pressure NMR and IR when investigating the nature of reaction intermediates in homogeneous reactions.

Metal Promoted Selectivity in Organic Synthesis A. Noels, M. Graziani, A.J. Hubert, 2012-12-06 The demand for selective organic reactions is growing more acute everyday. Indeed, greater product selectivity has an important impact on energy and resource utilization in terms of reduced process energy requirements for product separation and purification in terms of low value by products and in terms of environmental acceptance and compatibility. Moreover, more and more chemicals, especially pharmaceuticals, have to be sold in an optically active form. The search for selectivity constitutes a tremendous challenge for the chemists. In the last two decades, homogeneous transition metal based catalysis has emerged as one of the most promising tools for obtaining selectivity. In connection with developments in this area, this book contains updated and expanded versions of most of the lectures presented at a Cornett course held in Trieste, Italy, in 1989 and sponsored by the European Community. A primary aim is to cultivate a deeper understanding of the parameters that govern the selectivities and stimulate a wider utilization of transition metal based catalysis in organic synthesis. All aspects of selectivity: chemo, regio, stereo and enantioselectivity are considered and illustrated by applications in various fields of organic synthesis. The impact of catalysis in oxidation, reduction, carbonylation reactions, carbene chemistry in Ni and Pd promoted dimerizations, oligomerizations as well as functionalisations is stressed quite often with special emphasis laid on reaction mechanisms. In this aspect, the last chapter exemplifies the interest of high pressure NMR and IR when investigating the nature of reaction intermediates in homogeneous reactions. **Lewis Acids**

and Selectivity in Organic Synthesis M. Santelli, J.-M. Pons, 1995-11-21 Lewis acids provide inexpensive access to elaborated molecules obtained with high selectivities regio stereo and enantioselectivity Lewis Acids and Selectivity in Organic Synthesis is the first book to deal with these new and promising roles of Lewis acids The book begins with general considerations on Lewis acids and a description of Lewis acid carbonyl complexes which are involved in most of the reactions described ene reactions allylsilane and allyltin addition to carbonyl compounds addition of nucleophiles to acetals conjugated addition of allylsilanes and allyltins to unsaturated carbonyl compounds Sakurai reaction and Diels Alder reaction Subsequent chapters examine these issue in detail with special attention given to the way Lewis acids induce diastereo and enantioselectivity The extensive use of schemes approximately 1000 ensures rapid visual uptake of the information Lewis Acids and Selectivity in Organic Synthesis serves as a valuable source of information for all who face the challenge of selectivity in organic synthesis

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

Organometallic Modeling of the Hydrodesulfurization and Hydrodenitrogenation Reactions Robert A. Sánchez-Delgado, 2006-04-11 The fields of hydrodesulfurization HDS and hydrodenitrogenation HDN continue to attract the attention of researchers in the various disciplines connected to these fascinating problems that represent two of the key outstanding chemical challenges for the petroleum refining industry in view of their very strong environmental and commercial implications One area that has flourished impressively over the last 15 years is the organometallic chemistry of thiophenes and other related sulfur containing molecules This has become a powerful method for modeling numerous surface species and reactions implicated in HDS schemes and nowadays it represents an attractive complement to the standard procedures of surface chemistry and heterogeneous catalysis for understanding the complex reaction mechanisms involved in this process Similar developments have begun to appear in connection with HDN mechanisms although in a much more modest scale and depth Some years ago

when encouraged by Prof B R James this book was planned several excellent reviews and monographs treating different aspects of HDS were already available including some on the subject of organometallic models However it seemed appropriate to try to summarize the most striking features of this chemistry in an updated and systematic way and inasmuch as possible in connection with the common knowledge and beliefs of the mechanisms of heterogeneous HDS catalysis Hopefully this attempt to build some conceptual bridges between these two traditionally separated areas of chemistry has met with some success

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 Gary O. Spessard, Gary L. Miessler, 2016 Designed with the needs of both undergraduate and graduate students in mind Organometallic Chemistry Third Edition covers the fundamentals of organometallic chemistry by presenting seminal experiments analyzing real data and offering the most comprehensive problem sets available The text opens with careful explanations of the structure and bonding of organometallic compounds providing a uniquely accessible introduction to the subject for undergraduate students Later chapters build on this foundation with in depth coverage of more advanced topics such as organometallic reaction mechanisms catalysis carbene complexes metathesis applications of organometallic chemistry to organic synthesis and bioorganometallic chemistry

Aqueous Organometallic Catalysis Ferenc Joo, 2001-11-30 Over the past 20 years aqueous organometallic catalysis has found applications in small scale organic synthesis in the laboratory as well as in the industrial production of chemicals with a combined output close to one million tons per year Aqueous organic two phase reactions allow easy product catalyst separation and full catalyst recovery which mean clear benefits not only in economic but also in environmental and green chemistry contexts Instead of putting together a series of expert reviews of specialized fields this book attempts to give a comprehensive yet comprehensible description of the various catalytic transformations in aqueous systems as seen by an author who has been working on aqueous organometallic catalysis since its origin Emphasis is put on the discussion of differences between related non aqueous and aqueous processes due to the presence of water The book will be of interest to experts and students working in catalysis inorganic chemistry or organic synthesis and may serve as a basis for advanced courses

Computational Modeling of Homogeneous Catalysis Feliu Maseras, Agustí Lledós, 2006-04-11 Recent results on a wide array of catalytic processes are collected in this volume The book illustrates the importance of computational modelling in homogeneous catalysis by providing up to date reviews of its application to a variety of reactions of industrial interest

Photosensitization and Photocatalysis Using Inorganic and Organometallic

Compounds K. Kalyanasundaram, M. Grätzel, 2013-06-29 Photosensitization and photocatalysis refer to processes by which permanent chemical transformations are induced on substrates organic inorganic by radiation to which the substrates themselves are transparent Such transformations can be highly specific very efficient and occur under mild conditions Herein lies the power of photochemical methods for possible applications in the field of conversion and storage of solar energy This book provides a recent survey of the progress in this important area in catalysis with an emphasis on inorganic complexes and organometallic compounds as the key light absorbers The book is organized in three parts fundamentals followed by applications Discussions cover a wide variety of photosensitized or photocatalyzed reactions decomposition of water reduction of CO₂ and CO spectral sensitization in photoelectrochemical cells transformations oxidation reduction isomerization hydrogenation dehydrogenation carbonylation etc of organics such as alkanes alkenes alcohols etc In view of the variety of systems sensitizers substrates and the topics covered the volume is unique in the field of photochemistry and will appeal to academic and industrial researchers in various subdisciplines of chemistry material science and catalysis

Metal Promoted Selectivity In Organic Synthesis Book Review: Unveiling the Power of Words

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