



# Selectivities in Lewis Acid Promoted Reactions

Edited by

Dieter Schinzer

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# Selectivities In Lewis Acid Promoted Reactions

**Lukas J. Gooßen**



## **Selectivities In Lewis Acid Promoted Reactions:**

Selectivities in Lewis Acid Promoted Reactions Dieter Schinzer, 2012-12-06 The ASI workshop on Selectivities in Lewis Acid Promoted Reactions held in the Emmantina Hotel in Athens Glyfada Greece October 27 1988 was held to bring some light into the darkness of Lewis acid induced processes As such the workshop reflects some current trends in organic synthesis where Lewis acids are becoming a powerful tool in many different modern reactions e.g. Diels Alder reactions Ene reactions Sakurai reactions and in general silicon and tin chemistry The objective of this meeting was to bring together most of the world experts in the field to discuss the major reactions promoted by Lewis acids Organic synthesis will play a major role in this book connected with some fundamental mechanistic work on allylsilane and tin chemistry Both natural product synthesis and unnatural molecules are presented in the chapters The book presents all the 15 invited lectures and the contributions of 15 posters I am confident that the material presented in this book will stimulate the chemistry which has been discussed on our meeting around the world The meeting and the book were only possible through a grant of the NATO Scientific Affairs Division and financial support by the following companies Kali Chemie Hannover W Germany E Merck Darmstadt W Germany Sandoz Basel Switzerland Schering Berlin W Germany

**Selectivities in Lewis Acid Promoted Reactions** Dieter Schinzer, 1989-09-30 **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 issues 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 Advances in Asymmetric Synthesis, 1995-03-01 Advances in Asymmetric Synthesis Green Sustainable Process for Chemical and Environmental Engineering and Science Rajender Boddula, Mohammed Muzibur Rahman, Abdullah M. Asiri, Inamuddin, 2021-03-18 Green Sustainable Process for Chemical and Environmental Engineering and Science Solid State Synthetic Methods cover recent advances made in the field of solid state materials synthesis and its various applications The book provides a brief introduction to the topic and the fundamental principles governing the various methods Sustainable techniques and green processes development in solid state chemistry are also highlighted This book also provides a comprehensive literature on the industrial application using solid state materials and solid state devices Overall this book is intended to explore green solid

state techniques eco friendly materials involved in organic synthesis and real time applications Provides a broad overview of solid state chemistry Outlines an eco friendly solid state synthesis of modern nanomaterials organometallic coordination compounds and pure organic Gives a detailed account of solid state chemistry fundamentals concepts techniques and applications Deliberates cutting edge recent advances in industrial technologies involved in energy environmental medicinal and organic chemistry fields

*Homogeneous Catalysts Development* Mohammad Reza Rahimpour, Mohammad Amin Makarem, Tayebah Roostaie, Maryam Meshksar, 2024-10-04 Homogeneous Hydrogenation and Metathesis Reactions a volume in the Advances in Catalysis series covers hydrogenation and metathesis reactions in two separate sections The first section is devoted to homogeneous hydrogenation reactions and related processes including hydrogenation of alkenes esters olefins etc In the second section the metathesis reactions of olefins alkenes and alkynes are presented In addition the industrial application of homogeneous metathesis reactions is investigated Includes thermodynamic and kinetic studies of homogeneous catalysts Describes transition metal ligand and solvent roles in homogeneous catalysts Explains preparation characterization deactivation and regeneration of homogeneous catalysts Presents homogeneous catalysts by clusters carbenes fixed metal complexes and liquid liquid multiphase catalysts

Homogeneous Catalysis Concepts and Basics Mohammad Reza Rahimpour, Mohammad Amin Makarem, Tayebah Roostaie, Maryam Meshksar, 2024-08-15 Homogeneous Hydrogenation and Metathesis Reactions a volume in the Advances in Catalysis series covers hydrogenation and metathesis reactions in two separate sections The first section is devoted to homogeneous hydrogenation reactions and related processes including hydrogenation of alkenes esters olefins etc In the second section the metathesis reactions of olefins alkenes and alkynes are presented In addition the industrial application of homogeneous metathesis reactions is investigated Includes thermodynamic and kinetic studies of homogeneous catalysts Describes transition metal ligand and solvent role in homogeneous catalysts Explains preparation characterization deactivation and regeneration of homogeneous catalysts Presents homogeneous catalysts by clusters carbenes fixed metal complexes and liquid liquid multiphase catalysts

*Synthetic Coordination and Organometallic Chemistry* Alexander D. Garnovskii, Boris I. Kharissov, 2003-04-25 This reference describes standard and nonstandard coordination modes of ligands in complexes the intricacies of polyhedron programmed and regioselective synthesis and the controlled creation of coordination compounds such as molecular and h n p complexes chelates and homo and hetero nuclear compounds It offers a clear and concise review of modern synthetic techniques of metal complexes as well as lesser known gas and solid phase synthesis electrosynthesis and microwave and ultrasonic treatment of the reaction system The authors pay special attention to o hydroxyazomethines and their S Se containing analogues b diketones and quinines among others and examine the immediate interaction of ligands and metal salts or carbonyls

**Science of Synthesis: Water in Organic Synthesis** Shu Kobayashi, 2014-05-14 Water in Organic Synthesis is essential for the organic chemist in helping gain a thorough appreciation of the latest and most reliable available

methods for using water in organic synthesis It illustrates how water can often be a viable and green solvent in the laboratory and provides a detailed introduction to the subject background information evaluated methods practical applications industrial applications special techniques and an overview of the latest trends The reference work also helps in inspiring chemists worldwide to find new approaches and techniques for the application of water in organic synthesis Comprehensive overview of a rapidly progressing field Critical review of aqueous reactions by 47 experts Covering almost all types of organic reactions Including special techniques with water and industrial applications Emphasis on environmental aspects

**Aqueous-Phase Organometallic Catalysis** Boy Cornils, Wolfgang A. Herrmann, 2006-03-06 Now in its second completely revised and expanded edition Written by the renowned editors B Cornils and W A Herrmann this book presents every important aspect of aqueous phase organometallic catalysis a method which saves time waste and money The large scale application of this green technology in chemical industry clearly underlines its practical use outside of academia New chapters for example Organic Chemistry in Water 20% more content and fully updated contributions from a plethora of international authors make this book a must have for everyone working in this field From the reviews of the first edition This overview will be extremely useful for everyone active in this field Angewandte Chemie This book is an essential in any chemical research library and I strongly recommend it to all synthetic research and teaching chemists The Alchemist The editors are to be congratulated on assembling such a wide range of contributors who have described the industrial as well as the academic aspects of the subject Journal of Organometallic Chemistry

**Chemistry Beyond Chlorine** Pietro Tundo, Liang-Nian He, Ekaterina Lokteva, Claudio Mota, 2016-09-17 Since the industrial revolution chlorine remains an iconic molecule even though its production by the electrolysis of sodium chloride is extremely energy intensive The rationale behind this book is to present useful and industrially relevant examples for alternatives to chlorine in synthesis This multi authored volume presents numerous contributions from an international spectrum of authors that demonstrate how to facilitate the development of industrially relevant and implementable breakthrough technologies This volume will interest individuals working in organic synthesis in industry and academia who are working in Green Chemistry and Sustainable Technologies

Chiral Auxiliaries in Cycloadditions Karola Rück-Braun, Horst Kunz, 2008-09-26 Since the days of Diels Alder and Woodward cycloadditions have been among the most versatile reactions for stereoselective synthesis All relevant information is collected in this well structured practical handbook Arranged according to the cycloaddition type the suitable auxiliaries reactants stereoselectivities yields and references for each key reaction are compiled in compact tables Scientists interested in the theoretical background of stereoselective cycloadditions will find an excellent selection of in depth literature references with this comprehensive data collection cycloadditions will become an even more powerful tool for every organic chemist working on stereoselective synthesis

**The Diels-Alder Reaction** Francesco Fringuelli, Aldo Taticchi, 2002-01-21 This is the first book to collect together 70 years worth of experimental procedures that have been developed to perform the

Diels Alder reaction It begins with the fundamental principles and contains numerous graphical abstracts to present the basic concepts in a concise and pictorial way Covering the theory and synthetic applications of the experimental methods it describes the procedures and techniques and includes reports on industrial applications Illustrates the fundamental principles and summarises experimental methods used to carry out the Diels Alder reaction Contains physical and catalytic methods to enhance the selectivity of the Diels Alder reaction Includes procedures for cycloaddition accomplished in conventional and unconventional media Outlines the practical procedures Focuses on clean syntheses and green chemistry Provides a single source for relevant information and includes over 1 000 references The Diels Alder reaction mechanism was first published in 1928 and in the last 70 years has become the most commonly used and studied mechanism in organic chemistry

**Inventing Reactions** Lukas J. Gooßen, 2012-10-30 Barry Trost Transition metal catalyzed allylic alkylation Jeffrey W Bode Reinventing Amide Bond Formation Naoto Chatani and Mamoru Tobisu Catalytic Transformations Involving the Cleavage of C OMe Bonds Gregory L Beutner and Scott E Denmark The Interplay of Invention Observation and Discovery in the Development of Lewis Base Activation of Lewis Acids for Catalytic Enantioselective Synthesis David R Stuart and Keith Fagnou The Discovery and Development of a Palladium II Catalyzed Oxidative Cross Coupling of Two Unactivated Arenes Lukas Gooßen and K the Gooßen Decarboxylative Cross Coupling Reactions A Stephen K Hashmi Gold Catalyzed Organic Reactions Ben List Developing Catalytic Asymmetric Acetalizations Steven M Bischof Brian G Hashiguchi Michael M Konnick and Roy A Periana The De Novo Design of CH Bond Hydroxylation Catalysts Benoit Cardinal David Karl A Scheidt Carbene Catalysis Beyond the Benzoin and Stetter Reactions Kenso Soai and Tsuneomi Kawasaki Asymmetric autocatalysis of pyrimidyl alkanol Douglas C Behenna and Brian M Stoltz Natural Products as Inspiration for Reaction Development Catalytic Enantioselective Decarboxylative Reactions of Prochiral Enolate Equivalents Hisashi Yamamoto Acid Catalysis in Organic Synthesis

**Comprehensive Coordination Chemistry II** J. A. McCleverty, T.J. Meyer, 2003-12-03 Comprehensive Coordination Chemistry II CCC II is the sequel to what has become a classic in the field Comprehensive Coordination Chemistry published in 1987 CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters with an emphasis on current trends in biology materials science and other areas of contemporary scientific interest

**Domino and Intramolecular Rearrangement Reactions as Advanced Synthetic Methods in Glycoscience** Zbigniew J. Witczak, Roman Bielski, 2016-01-14 The book consists of a brief introduction a foreword provided by professor Danishefsky of Columbia University and about 14 16 chapters each written by one or two eminent scholars authors describing their recent research in the area of either domino reactions or intramolecular rearrangements in carbohydrate chemistry Three or four chapters will be reviews The domino cascade tandem reactions are always intramolecular They are usually very fast clean and offer highly complex structures in a one pot process Intramolecular rearrangements offer very similar advantages and often lead to highly complex products as well Although many recently

isolated carbohydrates fulfill various sophisticated functions their structures are often very complex The editors cover the broadest scope of novel methodologies possible All the synthetic and application aspects of domino cascade reactions are explored in this book A second theme that will be covered is intramolecular rearrangement which is also fast stereoselective and often constitutes one or more steps of domino cascade process Selected examples of intramolecular rearrangements are presented Together both processes offer an elegant and convenient approach to the synthesis of many complex molecules which are normally difficult to synthesize via alternative routes It appears that domino and intramolecular rearrangements are ideally suited to synthesize certain specific modified monosaccharides What is particularly important is that both processes are intermolecular and almost always yield products with very well defined stereochemistry This high definition is absolutely crucial when synthesizing advanced modified mono and oligosaccharides The choice of contributors reflects an emphasis on both therapeutic and pharmacological aspects of carbohydrate chemistry

**Activating Agents and Protecting Groups** Anthony J. Pearson, William R. Roush, 1999-07-09 Recognising the need for a cost effective reference work that deals not only with the most popular reagents in synthesis but also reaches the widest possible audience of practising organic chemists the editors of The Encyclopedia of Reagents for Organic Synthesis EROS have developed a list of the most important and useful reagents employed in the field conveniently presented in four separate volumes The reagents included in this volume reflect the fact that protecting groups and activation procedures are often used in combination There are many instances in the synthesis of natural and unnatural products pharmaceuticals oligosaccharides and oligonucleotides etc where similar tactics must be employed to prevent undesired activation or reaction of functionality Accordingly the most important reagents used to protect amines alcohols carboxyl carbonyl and other reactive functional groups are included in this volume The list of activating agents includes well known reagents that activate functional groups for substitution or elimination reactions as well as less traditional examples e g HMPA used to activate enolates and alkyllithium reagents to increase the nucleophilicity Each article contains all of the information found in EROS as well as expanded related reagents listings and additional references to enable the reader to quickly access a broad range of information that is beyond the scope of the reagent entries themselves This text will prove an invaluable resource

*Lanthanides: Chemistry and Use in Organic Synthesis* Shu Kobayashi, 2003-07-01 With contributions by numerous experts

*Modern Carbonyl Chemistry* Junzo Otera, 2008-11-21 The carbonyl group is undoubtedly one of the most important functional groups in organic chemistry both in its role as reactive center for synthesis or derivatisation and as crucial feature for special structural or physiological properties Vast and profound progress has been made in all aspects modern carbonyl chemistry These achievements are however rather dispersed in the literature and it is often not easy for the researcher obtain a comprehensive overview of a relevant topic Modern Carbonyl Chemistry overcomes this inconvenience by collating the information for appropriate themes In this work internationally renowned experts and leaders in the field have surveyed recent aspects and modern features in

carbonyl chemistry such as cascade reactions one pot syntheses recognition or site differentiation      **Stimulating Concepts in Chemistry** Fritz Vögtle, J. Fraser Stoddart, Masakatsu Shibasaki, 2000 Fresh ideas have always been a necessary ingredient for progress in chemistry Without a continuous supply of stimulating ideas from creative researchers there would be no new insights into the subject But what are some of the ideas that pervade modern chemistry The answer to this question is to be found in Stimulating Concepts in Chemistry In a collection of 24 essays a group of leading researchers provides an overview of the most recent developments in their fields Readers can find out about modern concepts in chemistry such as self assembly nanochemistry and molecular machines Moreover many spectacular advances have been achieved from the fusion of chemistry with life and materials science a development which is illustrated by contributions on enzyme mimics molecular wires and chemical sensors Further the essayists write about new nanomaterials efficient methods in synthesis and big biomolecules indeed many of the topics that have dominated some of the recent discussions in chemistry This outstanding text makes use of a special layout to reflect the editors aim of presenting concepts in the form of essays Thus the book is not merely another source of knowledge but is intended to stimulate readers to develop their own ideas and concepts This format should help to make the book interesting to a wide range of scientists Students of chemistry will benefit from the different style of presentation of their subject while researchers in industry and academia will welcome the exciting way in which some of the most challenging concepts in modern chemistry are presented



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