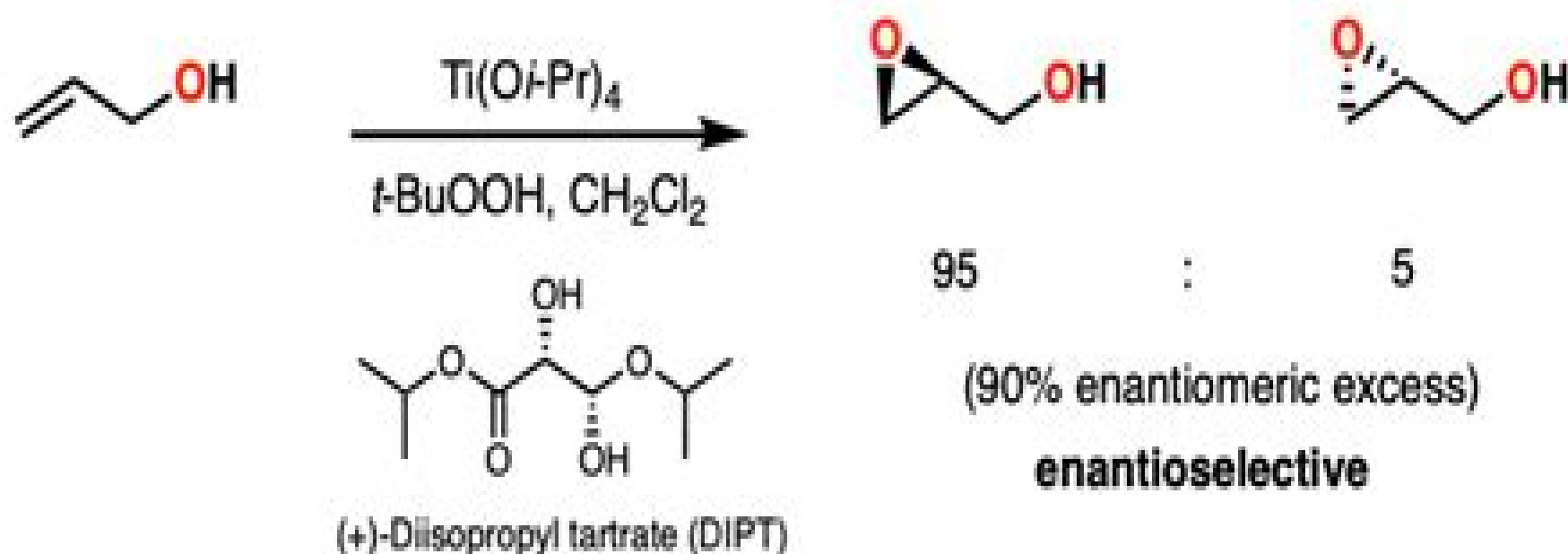


Enantioselectivity

An **enantioselective** reaction favors the formation of one enantiomer over another.

One example is the **Sharpless asymmetric epoxidation** of allylic alcohols



In this reaction, the alcohol, oxidant ($t\text{-BuOOH}$) and tartrate all coordinate to titanium and epoxidation occurs predominantly on one face of the alkene

For more detail, see *J. Am. Chem. Soc.* 1987, 109, 5765

Enantioselective Reactions In Organic Chemistry

**Jose L Vicario,Dolores Badia,Luisa
Carrillo,Efraim Reyes**



Enantioselective Reactions In Organic Chemistry:

Enantioselective Reactions in Organic Chemistry Otakar Červinka, 1995 **Advanced Organic Chemistry** Francis A. Carey, Richard J. Sundberg, 2007-06-13 The two part fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity The material has been updated to reflect advances in the field since the previous edition especially in computational chemistry Part A covers fundamental structural topics and basic mechanistic types It can stand alone together with Part B Reaction and Synthesis the two volumes provide a comprehensive foundation for the study in organic chemistry Companion websites provide digital models for study of structure reaction and selectivity for students and exercise solutions for instructors **Enantioselective Organocatalysis** Peter I. Dalko, 2007-04-17 In this reference leaders at the forefront of research provide an insight into one of the hottest topics in organic synthesis focusing on the most important enantioselective reactions Clearly structured each entry begins with a concise introduction including a mechanistic discussion of the reaction followed by preparative guidelines for newcomers such as carefully selected working procedures with critical notes for bench chemists rules of thumb and tips and tricks **Organic Chemistry** Thomas N. Sorrell, 2006 This textbook approaches organic chemistry from the ground up It focuses on the reactions of organic molecules showing why they are reactive what the mechanisms of the reactions are and how surroundings may alter the reactivity

Enantioselective Organocatalyzed Reactions I Rainer Mahrwald, 2011-08-03 Organocatalyzed Reactions I and II presents a timely summary of organocatalysed reactions including a Enantioselective C C bond formation processes e g Michael addition Mannich reaction Hydrocyanation Strecker reaction aldol reaction allylation cycloadditions aza Diels Alder reactions benzoin condensation Stetter reaction conjugative Umpolung asymmetric Friedel Crafts reactions b Asymmetric enantioselective reduction processes e g Reductive amination of aldehydes or ketones asymmetric transfer hydrogenation c Asymmetric enantioselective oxidation processes d Asymmetric epoxidation Bayer Villiger oxidation e Enantioselective a functionalization f A alkylation of ketones a halogenation and a oxidation of carbonyl compounds **Principles of Asymmetric Synthesis** R.E. Gawley, J. Aubé, 1996-11-21 The world is chiral Most of the molecules in it are chiral and asymmetric synthesis is an important means by which enantiopure chiral molecules may be obtained for study and sale Using examples from the literature of asymmetric synthesis more than 1300 references the aim of this book is to present a detailed analysis of the factors that govern stereoselectivity in organic reactions It is important to note that the references were each individually checked by the authors to verify relevance to the topics under discussion The study of stereoselectivity has evolved from issues of diastereoselectivity through auxiliary based methods for the synthesis of enantiomerically pure compounds diastereoselectivity followed by separation and auxiliary cleavage to asymmetric catalysis In the latter instance enantiomers not diastereomers are the products and highly selective reactions and modern purification techniques allow preparation in a single step of chiral substances in 99% ee for many reaction types After an explanation of the basic physical

organic principles of stereoselectivity the authors provide a detailed annotated glossary of stereochemical terms A chapter on Analytical Methods provides a critical overview of the most common methods for analysis of stereoisomers The authors then follow the tried and true format of grouping the material by reaction type Thus there are four chapters on carbon carbon bond forming reactions enolate alkylations organometal additions to carbonyls aldol and Michael reactions and cycloadditions and rearrangements one chapter on reductions and hydroborations carbon hydrogen bond forming reactions and one on oxidations carbon oxygen and carbon nitrogen bond forming reactions Leading references are provided to natural product synthesis that have been accomplished using a given reaction as a key step In addition to tables of examples that show high selectivity a transition state analysis is presented to explain to the current level of understanding the stereoselectivity of each reaction In one case Cram's rule the evolution of the current theory is detailed from its first tentative 1952 postulate to the current Felkin-Anh-Heathcock formalism For other reactions only the currently accepted rationale is presented Examination of these rationales also exposes the weaknesses of current theories in that they cannot always explain the experimental observations These shortcomings provide a challenge for future mechanistic investigations

Organocatalysis Maurizio Benaglia, 2021-07-19 Organocatalysis is considered today one of the three pillars in asymmetric catalysis along with biocatalysis and organometallic catalysis The possibility to combine organocatalysis with radical chemistry photocatalysis and enabling technologies opened new avenues in organic synthesis

Theilheimer's Synthetic Methods of Organic Chemistry G. Tozer-Hotchkiss, 2011-12-21 This systematic survey of the mainstream organic chemistry literature published six months ago provides a key research tool Highlights include 3 Examples abstracted to illustrate important new generally applicable synthetic methods 3 Abstracts summarizing the experimental procedure as well as indicating the scope and limitations of the method and important mechanistic features 3 Abstracts collated and organised into logical sections affording a useful browsing tool 3 Comprehensive indexing and cross referencing providing an invaluable research tool 3 More than 1000 graphical abstracts per year complemented by thousands of additional references which comprise supplementary information citations to previous abstracts a review of reviews and informed commentary on latest trends 3 Available as ActiveBooks fully text searchable online versions Each volume provides the organic chemist with an indispensable educational tool both for researching and browsing recent literature highlights in a way that is entirely complementary with searching electronic reaction databases Extensive indexing and cross referencing allows the series to grow volume by volume into an important reference work that deserves to be an integral part of any scientific library Specifically volume 79 comprises 3 546 graphical abstracts covering the mainstream organic chemistry literature to May 2011 3 A summary of reviews covering the six month period to September 2011 collated into easily accessible sections 3 An informed commentary on research trends during the six month period to November 2011

Enantioselective Organocatalyzed Reactions II Rainer Mahrwald, 2011-08-03 Organocatalyzed Reactions I and II presents a timely summary

of organocatalysed reactions including a Enantioselective C C bond formation processes e g Michael addition Mannich reaction Hydrocyanation Strecker reaction aldol reaction allylation cycloadditions aza Diels Alder reactions benzoin condensation Stetter reaction conjugative Umpolung asymmetric Friedel Crafts reactions b Asymmetric enantioselective reduction processes e g Reductive amination of aldehydes or ketones asymmetric transfer hydrogenation c Asymmetric enantioselective oxidation processes d Asymmetric epoxidation Bayer Villiger oxidation e Enantioselective a functionalization f A alkylation of ketones a halogenation and a oxidation of carbonyl compounds

Organocatalytic Enantioselective Conjugate Addition Reactions Jose L Vicario,Dolores Badia,Luisa Carrillo,Efraim Reyes,2010-10-18 This book unique in its field is a comprehensive description of all the methodologies reported for carrying out conjugate addition reactions in a stereoselective way using small chiral organic molecules as catalysts organocatalysts In the last 3 4 years this has been a rapidly growing field in organic chemistry and many papers have appeared reporting excellent protocols for carrying out these highly efficient transformations that compete well with other classical approaches using transition metal catalysts A particularly attractive feature of this transformation relies upon the fact that the conjugate addition Michael and Hetero Michael reactions is an extraordinarily effective means to initiate cascade processes which result in the formation of complex molecules from very small and simple starting blocks The book written by noted experts covers all recent advances in this hot topic and provides a good state of the art review for organic chemists working in this field and all those who wish to start projects in this area

Encyclopedia of Physical Organic Chemistry, 6 Volume Set Zerong Wang,Uta Wille,Eusebio Juaristi,2017-04-17 Winner of 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE This encyclopedia offers a comprehensive and easy reference to physical organic chemistry POC methodology and techniques It puts POC a classical and fundamental discipline of chemistry into the context of modern and dynamic fields like biochemical processes materials science and molecular electronics Covers basic terms and theories into organic reactions and mechanisms molecular designs and syntheses tools and experimental techniques and applications and future directions Includes coverage of green chemistry and polymerization reactions Reviews different strategies for molecular design and synthesis of functional molecules Discusses computational methods software packages and more than 34 kinds of spectroscopies and techniques for studying structures and mechanisms Explores applications in areas from biology to materials science The Encyclopedia of Physical Organic Chemistry has won the 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE The PROSE Awards recognize the best books journals and digital content produced by professional and scholarly publishers Submissions are reviewed by a panel of 18 judges that includes editors academics publishers and research librarians who evaluate each work for its contribution to professional and scholarly publishing You can find out more at proseawards.com Also available as an online edition for your library for more details visit Wiley Online Library

Cycloaddition Reactions in Organic Synthesis Shu Kobayashi,Karl Anker Jørgensen,2002 Cyclo additions are among the most important tools for synthesis in

organic chemistry since this type of reaction is vital to the modern synthesis of natural products and biologically effective substances. Catalysis with metals plays an increasingly important role in these reactions, often allowing several stereocenters to be selectively integrated in the subsequent target molecule. Kobayashi and Jorgensen's manual provides numerous examples of cyclopropanes 2,2,3,2 and 4,2 cycloadditions and 1,3 dipolar additions. A number of experimental procedures give a concrete idea of the use of metal catalytic cyclo additions in modern synthesis. The book is aimed at all chemists working in synthesis laboratories whether in industry or academia who want to effectively use cyclo additions for their reactions.

Organic Chemistry Pierre Vogel, Kendall N. Houk, 2019-10-07. Provides the background tools and models required to understand organic synthesis and plan chemical reactions more efficiently. Knowledge of physical chemistry is essential for achieving successful chemical reactions in organic chemistry. Chemists must be competent in a range of areas to understand organic synthesis. Organic Chemistry provides the methods, models, and tools necessary to fully comprehend organic reactions. Written by two internationally recognized experts in the field, this much needed textbook fills a gap in current literature on physical organic chemistry. Rigorous yet straightforward chapters first examine chemical equilibria, thermodynamics, reaction rates, and mechanisms, and molecular orbital theory, providing readers with a strong foundation in physical organic chemistry. Subsequent chapters demonstrate various reactions involving organic, organometallic, and biochemical reactants and catalysts. Throughout the text, numerous questions and exercises (over 800 in total) help readers strengthen their comprehension of the subject and highlight key points of learning. The companion Organic Chemistry Workbook contains complete references and answers to every question in this text. A much needed resource for students and working chemists alike, this text presents models that establish if a reaction is possible, estimate how long it will take, and determine its properties. Describes reactions with broad practical value in synthesis and biology, such as C-C coupling reactions, pericyclic reactions, and catalytic reactions. Enables readers to plan chemical reactions more efficiently. Features clear illustrations, figures, and tables. With a Foreword by Nobel Prize Laureate Robert H. Grubbs. Organic Chemistry: Theory, Reactivity, and Mechanisms in Modern Synthesis is an ideal textbook for students and instructors of chemistry and a valuable work of reference for organic chemists, physical chemists, and chemical engineers.

Reagents, Auxiliaries, and Catalysts for C-C Bond Formation Robert M. Coates, Scott E. Denmark, 1999-07-09. Aus dem bestehenden Material der Encyclopedia of Reagents for Organic Synthesis (EROS) werden Paquetten und die Herausgeber 500 bevorzugte Reagenzien ausgewählt, die dann in 4 Bände entsprechend ihrer Klassifikation eingeteilt werden: z.B. Oxidations- und Reduktionsreagenzien. Die endgültigen Titel der Bände werden festgelegt, sobald die Auswahl der 500 Reagenzien vorgenommen wurde. Jeder Band wird sich in Umfang und Struktur an EROS orientieren. Jeder Band erhält eine Einleitung, die ausgewählten Reagenzien erscheinen in alphabetischer Reihenfolge, und es gibt jeweils einen Index zu Reagenzien, Autoren und Themenkomplexen. Für jedes Reagenz werden die physikalischen und chemischen Daten detailliert angegeben, so daß der Leser den Gebrauch der jeweiligen

Reagenz versteht und sicher mit ihr arbeiten kann , **Organometallic Flow Chemistry** Timothy Noël, 2016-04-22 The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry As our understanding of organometallic structure properties and mechanisms increases new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis medical research biology and materials science Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry where new breakthroughs are being achieved that are of significance to a larger scientific audience The individual volumes of Topics in Organometallic Chemistry are thematic Review articles are generally invited by the volume editors All chapters from Topics in Organometallic Chemistry are published OnlineFirst with an individual DOI In references Topics in Organometallic Chemistry is abbreviated as Top Organomet Chem and cited as a journal *Comprehensive Chirality* , 2012-12-31 Although many books exist on the subject of chiral chemistry they only briefly cover chiral synthesis and analysis as a minor part of a larger work to date there are none that pull together the background information and latest advances in one comprehensive reference work Comprehensive Chirality provides a complete overview of the field and includes chiral research relevant to synthesis analytic chemistry catalysis and pharmaceuticals The individual chapters in each of the 9 volumes provide an in depth review and collection of references on definition technology applications and a guide links to the related literature Whether in an Academic or Corporate setting these chapters will form an invaluable resource for advanced students researchers new to an area and those who need further background or answers to a particular problem particularly in the development of drugs Chirality research today is a central theme in chemistry and biology and is growing in importance across a number of disciplinary boundaries These studies do not always share a unique identifying factor or subject themselves to clear and concise definitions This work unites the different areas of research and allows anyone working or researching in chiral chemistry to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of chirality counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Chirality fills this vacuum and can be considered the definitive work It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research and or for solving problems Chief Editors Hisashi Yamamoto University of Chicago and Erick Carreira ETH Zürich have assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource The Mizoroki-Heck Reaction Martin Oestreich, 2009-02-11 Exploring the importance of Richard F Heck's carbon coupling reaction this book highlights the subject of the 2010 Nobel Prize in Chemistry for palladium catalyzed cross couplings in organic synthesis and includes a foreword

from Nobel Prize winner Richard F Heck The Mizoroki Heck reaction is a palladium catalyzed carbon carbon bond forming process which is widely used in organic and organometallic synthesis It has seen increasing use in the past decade as chemists look for strategies enabling the controlled construction of complex carbon skeletons The Mizoroki Heck Reaction is the first dedicated volume on this important reaction including topics on mechanisms of the Mizoroki Heck reaction intermolecular Mizoroki Heck reactions focus on regioselectivity and product outcome in organic synthesis waste minimized Mizoroki Heck reactions intramolecular Mizoroki Heck reactions formation of heterocycles chelation controlled Mizoroki Heck reactions the Mizoroki Heck reaction in domino processes oxidative heck type reactions Fujiwara Moritani reactions Mizoroki Heck reactions with metals other than palladium ligand design for intermolecular asymmetric Mizoroki Heck reactions intramolecular enantioselective Mizoroki Heck reactions desymmetrizing Mizoroki Heck reactions applications in combinatorial and solid phase syntheses and the development of modern solvent systems and reaction techniques the asymmetric intramolecular Mizoroki Heck reaction in natural product total synthesis Several chapters are devoted to asymmetric Heck reactions with particular focus on the construction of otherwise difficult to obtain sterically congested tertiary and quaternary carbons Industrial and academic applications are highlighted in the final section The Mizoroki Heck Reaction will find a place on the bookshelves of any organic or organometallic chemist I am convinced that this book will rapidly become the most important reference text for research chemists in academia and industry who seek orientation in the rapidly growing and for the layman confusing field described as the Mizoroki Heck reaction Synthesis March 2010

Chirality in Transition Metal Chemistry Hani Amouri, Michel Gruselle, 2008-11-20 Chirality in Transition Metal Chemistry is an essential introduction to this increasingly important field for students and researchers in inorganic chemistry Emphasising applications and real world examples the book begins with an overview of chirality with a discussion of absolute configurations and system descriptors physical properties of enantiomers and principles of resolution and preparation of enantiomers The subsequent chapters deal with the specifics of chirality as it applies to transition metals Some reviews of Chirality in Transition Metal Chemistry useful to students taking an advanced undergraduate course and particularly to postgraduates and academics undertaking research in the areas of chiral inorganic supramolecular complexes and materials Chemistry World August 2009 the book offers an extremely exciting new addition to the study of inorganic chemistry and should be compulsory reading for students entering their final year of undergraduate studies or starting a Ph D in structural inorganic chemistry Applied Organometallic Chemistry Volume 23 Issue 5 May 2009 In conclusion the book gives a wonderful overview of the topic It is helpful for anyone entering the field through systematic and detailed introduction of basic information It was time to publish a new and topical text book covering the important aspect of coordination chemistry It builds bridges between Inorganic organic and supramolecular chemistry I can recommend the book to everybody who is interested in the chemistry of chiral coordination compounds Angew chem Volume 48 Issue 18 April 2009 About the Series

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Comprehensive Organic Chemistry Experiments for the Laboratory Classroom Carlos A. M. Afonso, Nuno R. Candeias, Dulce Pereira Simão, Alexandre F. Trindade, Jaime A. S. Coelho, Bin Tan, Robert Franzén, 2016-12-16 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions The editorial team have collected contributions from around the world and standardized them for publication Each experiment will explore a modern chemistry scenario such as sustainable chemistry application in the pharmaceutical industry catalysis and material sciences to name a few All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors concerning the results obtained and advice on getting the best outcome from the experiment A section covering practical aspects with tips and advice for the instructors together with the results obtained in the laboratory by students has been compiled for each experiment Targeted at professors and lecturers in chemistry this useful text will provide up to date experiments putting the science into context for the students

Enantioselective Reactions In Organic Chemistry Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Enantioselective Reactions In Organic Chemistry**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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