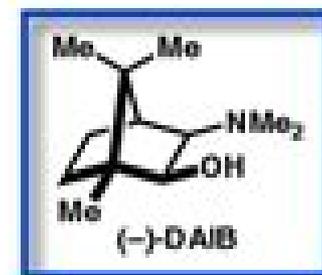
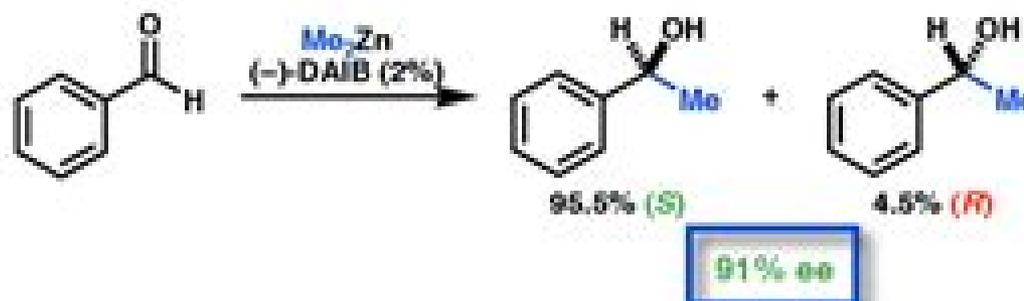


# Stereoselectivity in organic synthesis

- **Stereospecific reactions** - a reaction where the mechanism means the stereochemistry of the starting material determines the stereochemistry of the product; **there is no choice!** e.g.  $S_N2$  reactions
- **Stereoselective reactions** - a reaction where one stereoisomer of a product is formed **preferentially** over another. The mechanism does not prevent the formation of two or more stereoisomers but **one predominates**.
- **Diastereoselective reactions** - a stereogenic centre is introduced into a molecule in such a way that diastereoisomers are produced in unequal amounts



- **Enantioselective reactions** - a reaction that produces two enantiomers of a product in unequal amounts



# Stereoselectivity In Synthesis

**Carreira**



## **Stereoselectivity In Synthesis:**

Stereoselective Synthesis Robert S. Atkinson, 1995-09-13 Introduces a new classification for stereoselective reactions based on the number of chiral centres contained in the starting material and the product Based on stereochemical terms this classification enables users to apply methods for the synthesis of target molecules **Stereoselective Synthesis** Mihály Nógrádi, 1994-12-05 Die neuesten Methoden der stereoselektiven Synthese Diese gründlich bearbeitete und aktualisierte Neuauflage liefert eine Fülle wertvoller Informationen zu Methoden und Reagenzien in der stereoselektiven Synthese Im Vordergrund stehen dabei Reaktionen mit hoher Ausbeute und Selektivität Wichtige Mechanismen werden kurz vorgestellt die Betonung liegt jedoch stets auf den praktischen Anwendungen Die Neuauflage wurde erweitert um Abschnitte über homogene diastereoselektive Hydrierungen enantioselektive Oxidationen neue effiziente chirale Auxiliare Ein Großteil der Informationen ist übersichtlich und kompakt in Tabellen und Schemata zusammengefasst Das Buch ist somit auch ein unverzichtbares Nachschlagewerk für alle Synthesechemiker Aus Rezensionen der ersten Auflage Die knapp 1400 Literaturzitate machen das Buch zu einer Fundgrube für Informationen Es sollte in keiner Chemiebibliothek fehlen The American Scientist **Stereochemistry and Stereoselective Synthesis** Mihály Nógrádi, László Poppe, József Nagy, Gábor Hornyánszky, Zoltán Boros, 2016-06-22 Dieses Lehrbuch aus der Feder anerkannter und erfahrener Autoren füllt ein Lücke Endlich steht eine prägnante Einführung in Schlüsselkonzepte der organischen Stereochemie und in wichtige klassische sowie moderne Methoden der stereoselektiven Synthese zur Verfügung Die Konzepte sind reichhaltig in Farbe illustriert Praktische Beispiele sowie Frage-Antwortabschnitte tragen zur Festigung der Lehrstoffe bei über die Wiley Website sind Animationen verfügbar Dieses Buch ist ein Muss für Studenten der Chemie Biochemie und Biowissenschaften für Forscher in Pharmaunternehmen und Firmen der Agrochemie die eine schnelle Einführung in das Fachgebiet suchen **Stereoselective Synthesis in Organic Chemistry** Atta-ur-Rahman, Zahir Shah, 2012-12-06 Stereoselective Synthesis, 1989

*Stereochemistry of Organic Compounds* D. Nasipuri, 1994 During Recent Years Stereochemistry Has Undergone A Phenomenal Growth Both In Theory And Practice With A Concomitant Increase Of Interest Among The Organic Chemists Biological Chemists Medicinal Chemists And Pharmacologists The Present Text Provides An Up To Date Coherent And Comprehensive Account Of The Subject Starting From The Fundamentals And Leading Up To The Latest Development As Far As Practicable Emphasis Has Been Placed On Symmetry Based Approach To Molecular Chirality Stereochemical Terminologies Modern Stereochemistry Is Replete With Them Topicity And Prostereoisomerism Conformational Analysis Dynamic Stereochemistry Chiroptical Properties And Assignment Of Absolute Configuration To Chiral Molecules Dynamic Stereochemistry Has Been Discussed With Reference To Conformation Reactivity Correlation Stereoselective Syntheses And Pericyclic Reactions A Large Cross Section Of Organic Reactions With Stereochemical Implication Has Been Incorporated Attempts Have Been Made To Familiarise The Readers With Modern Instrumental Techniques Nuclear Magnetic Resonance

In Particular Used For Stereochemical Investigation Each Chapter Is Provided With A Summary Which Highlights The Main Points Of The Text Selective References Mostly Of Textbooks Monographs Review Articles And Significant Original Papers Have Been Given Extending Sometimes To Early 1991 The Book Is Expected To Fulfil The Long Felt Need For A Comprehensive Text On Modern Organic Stereochemistry Which Is Conspicuously Absent Since The Publication Of Professor Eliels Book In 1962 The Text May Be Adopted At Any Stage Of The University Teaching And At The Same Time Be Useful To The Practising Organic Chemists

Stereoselectivity in Synthesis Tse-Lok Ho,1999-03-25 In planning a synthesis how does one select the appropriate method for making the preferred stereoisomer Stereoselectivity in Synthesis answers this question and much more Highly respected scientist Tse Lok Ho offers a systematic review of the synthetic literature addressing the proliferation in recent years of methodologies related to reaction stereoselectivity He extracts the most useful examples to illustrate the basic principles of organic stereochemistry and its application and helps readers solve real world stereochemical problems in organic and medicinal chemistry as well as in the pharmaceutical agricultural and food industries

*Dynamic Stereochemistry* Sudhir Chandra Pal,2025-03-27 The present book describes the applications of the principles of stereochemistry in organic reactions called dynamic stereochemistry The stereochemical aspects of substitution addition elimination including fragmentations reactions and rearrangements are discussed in a most systematic way The application of the allylic strains I strain alkyl ketone effects anomeric effect etc are illustrated with numerous examples An introduction to different approaches to the stereoselective reactions are given Double stereodifferentiation matched and mismatched pair of reactants is also discussed at an elementary level Intramolecular reactions including those involving the application of tethers and transannular reactions are discussed Different stereoselective synthetic methods for the olefins are discussed and summarised A separate chapter on pericyclic reactions that are highly stereospecific in nature is presented Problems including multiple choice questions as well are given in the exercises of each chapter and their solution is given at the end Appendix II is totally devoted to MCQ The teaching and learning of this subject are the main purpose of the book

**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      **Stereoselective Synthesis** Atta-ur Rahman,1989 Section 1

Stereoselective Synthesis in Organic Chemistry Zahir Shah,1993-05-21      *Advanced Organic Chemistry* Francis A. Carey,Richard J. Sundberg,2000 Concentrating on the most important reactions used for organic synthesis this upper level textbook presents the material by reaction type The final chapter discusses the planning and execution of multi step synthesis      *Cyclization Reactions* C. Thebtaranonth,Yodhathai Thebtaranonth,1993-05-01 Cyclization Reactions provides a quick update of the latest advances in cyclization reactions It covers the basic principles of cyclization chemistry emphasizing practical applications Chapters are organized according to the different cyclization intermediates cationic radical anionic and metal complex intermediates The last chapter covers macrolactonization vicinal tricarbonal and Bergman enediyne reactions which are of particular interest today More than 2 600 structures illustrate key concepts throughout the book Various cyclizations are organized into mechanistic groups to help researchers choose and change between methods when searching for maximum efficiency in synthesis Critical coverage of the literature up to 1992 is provided Cyclization Reactions is essential reading for anyone involved in the synthesis of ring compounds or who is seeking a rapid overview of the field Newcomers as well as experienced researchers will benefit from this book It also is excellent reference material for students at the advanced undergraduate and graduate levels      *Classics in Stereoselective Synthesis 2E* Carreira,2017-12-06 The second edition of this well received classic textbook in organic chemistry has been completely revised and restructured to reflect the developments in stereoselective synthesis over the past decade The prominent author team with long standing experience in teaching and industry has removed obsolete topics while expanding existing chapters and adding such new topics as stereoselective cross couplings and C C activations reactions New features include a brief section on reaction mechanism and key principles as well as selected exercises with answers to help students in their understanding of the topic Retaining its proven concept this clearly is a must have for students and lecturers in organic chemistry while equally serving as an excellent reference for every synthetic organic chemist in academia or industry      Principles of Organic Stereochemistry Bernard Testa,1979      **Bibliography of Mass Spectroscopy Literature for 1970** ,1972

*Stereochemistry* P. S. Kalsi,2009 Stereochemistry has always occupied a central position and is pivotal to the practice of organic chemistry A solid understanding of this subject is indeed critical to subsequent success in a science career Stereochemistry is therefore a core constituent both at the undergraduate and postgraduate chemistry courses This seventh edition is extensively revised and enlarged by adding new material to take account of recent developments and extensive amendments have been made to improve clarity The key features of this new addition are A brand new design Incorporation of basic principles in boxes directly links the students to the main text A large number of exercises with their solutions have been now added in each chapter These exercises are set at appropriate places so that the students can test their command of a particular topic New problems have been added at the end of each chapter Chemical illustrations have been modified and

developed for clarity and information Generally the figures contain text as well to decrease the need to refer back and forth to the text and for better understanding *Advances in Microwave Chemistry* Bimal K Banik, Debasish Bandyopadhyay, 2018-12-07 *Advances in Microwave Chemistry* discusses the novel bond formation methodologies synergistic effects of microwaves with other entities sample preparation including digestion combustion and extraction techniques as well as selectivity in chemical processes Recent updates are provided on microwave assisted syntheses of pharmacologically significant aza oxo and other heterocycles including lactams nucleosides bile acids and sterols the preparation of nanomaterials composites and absorber layer materials for thin film This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic inorganic medicinal and green chemistry Key Features Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic inorganic medicinal and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses the biological impact of products formed in reactions pharmacological features and environmental sustainability of the procedures Explains microwave induced reactions on structurally complex bile acids and sterols Stands as a valuable and unique addition to the well established book series *New Directions in Organic and Biological Chemistry* **Stereochemistry of Carbon Compounds** Ernest Ludwig Eliel, 1962 **Stereochemistry of Radical Reactions** Dennis P. Curran, Ned A. Porter, Bernd Giese, 1996-06-11 As little as a decade ago radicals were regarded as interesting reactive intermediates with little synthetic use However recent results show that radicals have an enormous potential for applications in stereoselective reactions it s all a matter of knowing what method to use and how to apply it Three world experts in the field have combined their expertise and present the concepts to understand and even to predict the course of stereoselective radical reactions In addition guidelines are established which will enable the readers to plan and carry out their own stereoselective syntheses with radicals A comprehensive list of references provides an easy access to the primary literature The *Stereochemistry of Radical Reactions* is a highly topical introduction to this burgeoning field of research Both advanced students and researchers active in the field will welcome this book as a source of concepts and ideas

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