

Stereoselective

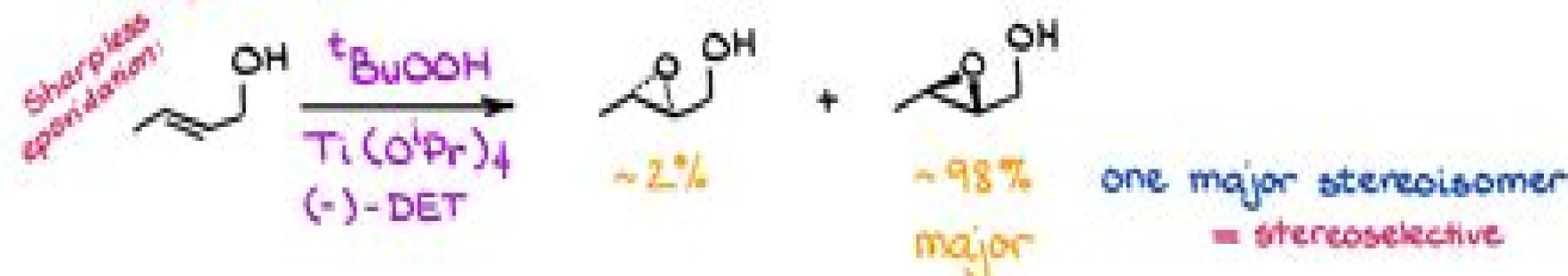


Example:



$\sim 50\%$ $\sim 50\%$ = NOT stereoselective

compare to:



Stereoselective Synthesis

Johannes G. de Vries



Stereoselective 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, 2016-06-14 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 **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*, 1989 *Stereoselective Synthesis* Atta-ur Rahman, 1989 Section 1 **Stereoselective**

Synthesis in Organic Chemistry Zahir Shah,1993-05-21 Bioactive Natural Products (Part D) Atta-ur Rahman,2000-11-03 Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement and many aspects of basic research programs are intimately related to natural products The significance therefore of the Studies in Natural Product Chemistry series edited by Professor Atta ur Rahman cannot be overestimated This volume in accordance with previous volumes presents us with cutting edge contributions of great importance

Studies in Natural Products Chemistry Atta-ur Rahman,2021-09-22 Studies in Natural Products Chemistry Volume 71 covers the synthesis testing and recording of the medicinal properties of natural products providing cutting edge accounts of the fascinating developments in the isolation structure elucidation synthesis biosynthesis and pharmacology of a diverse array of bioactive natural products With the rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques it has become possible to isolate and then determine the structures and biological activity of natural products rapidly thus opening up exciting opportunities in the field of new drug development to the pharmaceutical industry Natural products in the plant and animal kingdom offer a huge diversity of chemical structures that are the result of biosynthetic processes that have been modulated over the millennia through genetic effects hence users will find the detailed information in this book to be a great resource on the topics covered Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

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Handbook of Natural Pesticides N. Bhushan Mandava,2019-01-15 This handbook series includes several naturally occurring chemicals that exhibit biological activity These chemicals are derived from plants insects and several microorganisms Volume I of this series is covers the theory and practice of the strategies for pest control and methods for detection Moreover it presents extensive tables that provide the information you need to select the most appropriate bioassay for a particular plant growth regulator or hormone In addition to the chapters on bioassays Volume I provides a solid introduction to the theory and practice of natural pesticide use including in depth discussions of integrated management systems for weed and pest control the state of the art use of computers in pest management and allelochemicals as natural protection Guidelines on toxicological testing and EPA regulation of natural pesticides are also detailed

Stereoselective Synthesis Eckhard Ottow,Klaus Schöllkopf,Bernd-Günter Schulz,2012-12-06 Devising methods and reagents for stereoselective synthesis is an intellectually demanding venture Six experts on diastereo and

enantioselective synthesis contributed their papers to this volume They were presented at a symposium on stereoselective synthesis to honour Professor Dr h c Rudolf Wiechert s achievements in medicinal chemistry research The symposium was organized by the Schering AG on the occasion of Professor Wiechert s 65th birthday

Stereoselective Heterocyclic Synthesis I Peter Metz,1997-05-20 This two volume set presents exciting new developments in preparative heterocyclic chemistry with a special emphasis on the stereoselective synthesis of or with the aid of heterocycles A wide range of modern methods and strategies for the construction and synthetic elaboration of versatile heterocycles is surveyed in depth by leading researchers in this field Due to the high quality and up to date coverage of each chapter this two volume set provides a valuable overview of the different aspects discussed and will at the same time be highly inspiring for the expert synthetic organic chemist as well as the non specialist reader

Stereoselective Synthesis of Drugs and Natural Products Vasyly Andrushko,Natalia Andrushko,2013-08-16 Brings together the best tested and proven stereoselective synthetic methods Both the chemical and pharmaceutical industries are increasingly dependent on stereoselective synthetic methods and strategies for the generation of new chiral drugs and natural products that offer specific 3 D structures With the publication of Stereoselective Synthesis of Drugs and Natural Products researchers can turn to this comprehensive two volume work to guide them through all the core methods for the synthesis of chiral drugs and natural products Stereoselective Synthesis of Drugs and Natural Products features contributions from an international team of synthetic chemists and pharmaceutical and natural product researchers These authors have reviewed the tremendous body of literature in the field in order to compile a set of reliable tested and proven methods alongside step by step guidance This practical resource not only explores synthetic methodology but also reaction mechanisms and applications in medicinal chemistry and drug discovery The publication begins with an introductory chapter covering general principles and methodologies nomenclature and strategies of stereoselective synthesis Next it is divided into three parts Part One General Methods and Strategies Part Two Stereoselective Synthesis by Bond Formation including C C bond formation C H bond formation C O bond formation C N bond formation Other C heteroatom formation and other bond formation Part Three Methods of Analysis and Chiral Separation References in every chapter serve as a gateway to the literature in the field With this publication as their guide chemists involved in the stereoselective synthesis of drugs and natural products now have a single expertly edited source for all the methods they need

Stereoselective Heterocyclic Synthesis III Peter Metz,2010-12-04 **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 Science of Synthesis: Stereoselective Synthesis Vol. 1 Johannes G. de Vries, 2014-05-14 C C reactions are highly attractive as they are additions and thus by nature highly atom economic Specific topics discussed stereoselective addition of one or more carbon or heteroatom groups across a C C bond e g dihydroxylation hydroboration hydroamination conjugate addition epoxidation aziridination and cyclopropanation This volume is part of a 3 volume set Science of Synthesis Stereoselective Synthesis Workbench Edition Further information about Stereoselective Synthesis including sample pages and the table of contents *Stereoselective Synthesis* Atta-ur- Rahman, 1992

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