

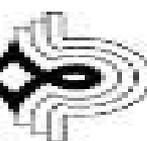
Mihály Nógrádi

# Stereoselective Synthesis

A Practical Approach  
Foreword by A. I. Meyers

Second, Thoroughly Revised and Updated Edition



VCH 

# Stereoselective Synthesis A Practical Approach

**Robert M. Coates, Scott E. Denmark**



## **Stereoselective Synthesis A Practical Approach:**

**Stereoselective Synthesis** M. Nógrádi, 1995-01-01      **Stereoselective Synthesis** Mihály Nógrádi, 2008-07-11 The state of the art in stereoselective synthesis Thoroughly revised and updated this enlarged second edition offers a plethora of valuable information on methods and reagents in stereoselective synthesis Methods have been selected for high efficiency and selectivity mechanistic aspects are treated succinctly with a strong emphasis on practical applications For this new edition material has been added on homogeneous diastereoselective hydrogenations enantioselective oxidations novel efficient chiral auxiliaries Much of the information given is presented in figures and tables which makes the book a valuable reference work for the practically minded organic chemist From reviews of the first edition The extensive material in the volume should prove particularly useful to anyone involved in synthetic chemistry or teaching a course in organic chemistry Journal of Medicinal Chemistry With nearly 1400 references cited the book contains a wealth of information and should be a useful addition to the chemist s library The American Scientist

**Stereoselective Synthesis of Drugs and Natural Products** Vasyl 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

*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 Paquette und die Herausgeber 500 bevorzugte Reagenzien ausw hlen die dann in 4 B nde entsprechend ihrer Klassifikation eingeteilt werden z B Oxidations und Reduktionsreagenzien Die endg ltigen Titel der B nde

werden festgelegt sobald die Auswahl der 500 Reagenzien vorgenommen wurde Jeder Band wird sich in Umfang und Struktur an EROS orientieren d h er verf gt ber eine Einleitung die ausgew hlten Reagenzien erscheinen in alphabetischer Reihenfolge und es gibt jeweils einen Index zu Reagenzien Autoren und Themenkomplexen F r jedes Reagenz werden die physikalischen und chemischen Daten detailliert angegeben so da der Leser den Gebrauch der jeweiligen Reagenz versteht und sicher mit ihr arbeiten kann

**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

**Process Chemistry in the Pharmaceutical Industry** Kumar Gadamasetti, 1999-05-06 Providing guidance for chemists and other scientists entering pharmaceutical discovery and development this up to the minute reference presents contributions from an international group of nearly 50 renowned researchers offering a solid grounding in synthetic and physical organic chemistry and clarifying the roles of various special

**Applied Homogeneous Catalysis with Organometallic Compounds** Boy Cornils, Wolfgang A. Herrmann, Matthias Beller, Rocco Paciello, 2017-09-05 The completely revised third edition of this four volume classic is fully updated and now includes such topics as as CH activation and multicomponent reactions It describes the most important reaction types new methods and recent developments in catalysis The internationally renowned editors and a plethora of international authors including Nobel laureate R Noyori guarantee high quality content throughout the book A must read for everyone in academia and industry working in this field

**Introduction to Green Chemistry** Albert Matlack, 2001-04-03 With roughly 5500 references this book may be considered more of a treatise than a mere introduction to green chemistry Using an unconventional approach the author provides a broad but thorough review of the subject covering traditional green chemistry topics such as catalysis benign solvents and alternative feedstocks before moving on to less frequently covered topics such as chemistry of longer wear and population and the environmental chemistry Topics such as these highlight the importance of chemistry to everyday life and demonstrate the real benefits that wider exploitation of green chemistry can have for society

**Preparation of Alkenes** Jonathan M. J. Williams, 1996 This is one of a series of texts describing the experimental methods needed for the preparation of chemicals The authors of these chapters share their experiences with

chemical reactions to provide background information and invaluable protocol for the synthesis of alkenes Included are a review of old and new methods for preparing alkenes easy to follow recipes that can be used at the bench references to many examples from the most recent literature and particular attention to controlling the geometry of alkene synthesis The material will be very useful to practicing synthetic chemists in academic and industrial laboratories **Stereoselective**

**Synthesis**, 1988 **A Practical Approach to Chiral Separations by Liquid Chromatography** G.

Subramanian, 1994-10-17 Both analytical and preparative scale enantioseparation techniques are covered in a down to earth practical way The most important aspects of design economics and safety are considered with emphasis on current European and North American legislation In addition the theory of chiral separation is covered in sufficient detail to guide the practising chromatographer interested in developing new techniques A team of experts from academic and industrial laboratories throughout the world have compiled their findings and experience to make this book an exceptionally timely and unique contribution to the field **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 *Organic Synthesis Highlights II* Herbert

Waldmann, 1995 Like its predecessor *Organic Synthesis Highlights II* surveys recent accomplishments and current trends in synthetic organic chemistry Part I describes new methods and reagents including asymmetric carbon carbon bond formation with metallocenes and with enzymes via temporary silicon connections and by means of carbohydrate complexes Part II describes landmarks in the synthesis of natural products and surveys synthetic strategies to different classes of natural products The forty essays in this volume bear witness to the creativity and talent which have led to the recent advances in the field Both advanced students and researchers active in the field will welcome this as a source of ideas and inspiration

**Enantioselective Reactions in Organic Chemistry** Otakar Červinka, 1995 **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 f llt ein L cke Endlich steht eine pr gnante Einf hrung in Schl sselkonzepte der organischen Stereochemie und in wichtige klassische sowie moderne Methoden der stereoselektiven Synthese zur Verf gung Die Konzepte sind reichhaltig in Farbe illustriert Praktische Beispiel sowie Frage Antwortabschnitte tragen zur Festigung der

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