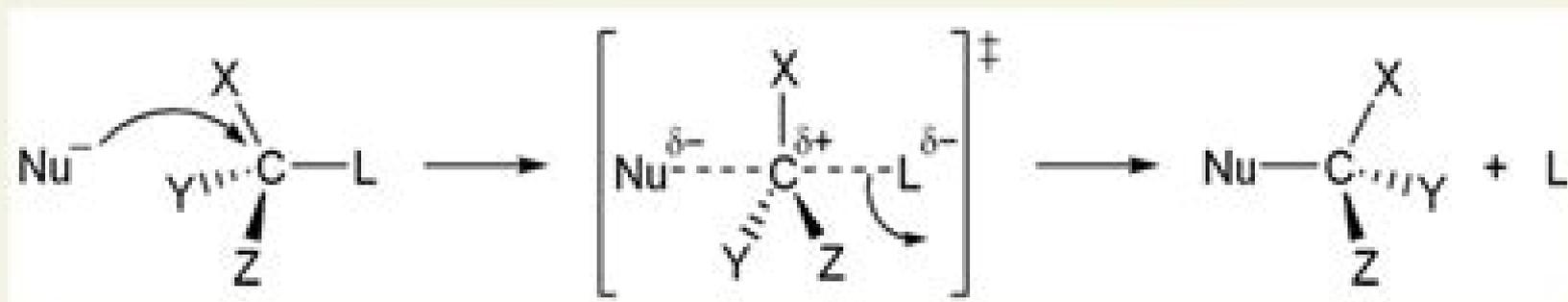


# Chiral pool synthesis

- Chiral pool synthesis is one of the simplest and oldest approaches for enantioselective synthesis. A readily available chiral starting material is manipulated through successive reactions, often using achiral reagents, to obtain the desired target molecule. This can meet the criteria for enantioselective synthesis when a new chiral species is created, such as in an  $S_N2$  reaction.



- Chiral pool synthesis is especially attractive for target molecules having similar chirality to a relatively inexpensive naturally occurring building-block such as a sugar or [amino acid](#). However, the number of possible reactions the molecule can undergo is restricted and tortuous synthetic routes may be required (e.g. [Oseltamivir total synthesis](#)). This approach also requires a [stoichiometric](#) amount of the [enantiopure](#) starting material, which can be expensive if it is not naturally occurring.

# Asymmetric Synthesis The Chiral Carbon Pool And

**Scott C. Dulebohn**



## **Asymmetric Synthesis The Chiral Carbon Pool And:**

**Asymmetric Synthesis** James Daniel Morrison, John W. Scott, 1984      **The Chiral Carbon Pool and Chiral Sulfur, Nitrogen, Phosphorus, and Silicon Centers** James D. Morrison, John W. Scott, 1984      **Asymmetric Synthesis**, 1983

Asymmetric Synthesis V4 James Morrison, 2012-12-02 Asymmetric Synthesis Volume 4 The Chiral Carbon Pool and Chiral Sulfur Nitrogen Phosphorus and Silicon Centers describes the practical methods of obtaining chiral fragments Divided into five chapters this book specifically examines initial chiral transmission and extension The opening chapter describes the so called chiral carbon pool the readily available chiral carbon fragments used as building blocks in synthesis This chapter also provides a list of 375 chiral building blocks along with their commercial sources approximate prices and methods of synthesis Schemes involving almost 1 300 structures and the use of chiral building blocks to prepare alkaloids arachidonic acid metabolites compounds with chemotherapeutic and pharmacological activity insect pheromones sugars vitamins terpenoids and miscellaneous compounds are also included in this text The remaining chapters provide a similar overview of the chemistry of compounds chiral at sulfur phosphorus nitrogen and silicon Synthetic chemists and researchers especially those engaged in pharmaceutical research and specialty chemicals production will find this book invaluable      *The Chiral Carbon Pool and Chiral Sulfur, Nitrogen, Phosphorus, and Silicon Centers* James D. Morrison, John W. Scott, 1984      General and Synthetic Methods G. Pattenden, 1987 Annotation Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume      Asymmetric Synthesis Gary M. Coppola, Herbert F. Schuster, 1987-01-19 Presents in a logical readable manner the synthetic utility of amino acids for the generation of chiral agents intermediates and final products by means of asymmetric synthesis In the past 20 years asymmetric synthesis has forged to the forefront of organic chemistry This book provides extensive schemes and reactions containing over 1900 structures to illustrate the varied assortment of chiral intermediates that can be generated from amino acids and their derivatives Focuses on the alpha l c Greek letter amino acids

and second generation intermediates that can be derived therefrom which are of general interest to organic chemists in either the industrial or the academic environment Special attention has been paid to the asymmetric synthesis of key pharmaceutical agents agrochemicals and a host of natural products including alkaloids terpenoids carbohydrates and insect pheromones Includes extensive and up to date references *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 Zurich 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 *Synthesis and Asymmetric Reactivity of Electronically and Sterically Differentiating Chiral Cyclopentadienyl Metal Complexes* Ronald Lee Halterman, 1985 **Drug Stereochemistry** Irving Wainer, 1993-02-24 Maintaining and enhancing its focus on key issues in the development regulatory approval and use of stereoisomeric compounds this edition continues to cover in detail all aspects of chiral drugs from the academic governmental industrial and clinical points of view Completely rewritten and updated throughout *Drug Stereochemistry* illustrates current indirect chromatographic methods for the resolution of drug enantiomers treats the rapidly growing area of enantioselective gas chromatography discusses the latest in HPLC resolution of enantiomeric drugs uses verapamil as a model to show how stereoselective pharmacokinetics affect pharmacodynamics and supplies an in depth study on the effect

of stereoselective plasma protein binding This edition offers entirely new chapters that discuss the recent decisions and present position of the US Food and Drug Administration on the development of stereoisomeric drugs explicate enzymatic synthesis of stereochemically pure drugs review the toxicological pharmacokinetic and pharmacodynamic differences found among stereoisomers elucidate the stereoselective transport of drugs across epithelia and give a physician's perspective on the questions and problems caused by stereoisomeric drugs in practice as well as the pharmaceutical industry's collective viewpoint based on a national survey

**Carbanion Chemistry** E. Bunce, Julian Michael, 2003 Table of contents  
**Mosaic**, 1985 Asymmetric Synthesis: Analytical methods James D. Morrison, John W. Scott, 1983 **Science of Synthesis: Houben-Weyl Methods of Molecular Transformations Vol. 40a** Dieter Enders, Ernst Schaumann, 2014-05-14  
Science of Synthesis Houben Weyl Methods of Molecular Transformations is the entirely new edition of the acclaimed reference series Houben Weyl the standard synthetic chemistry resource since 1909 This new edition is published in English and will comprise 48 volumes published between the years 2000 and 2008 Science of Synthesis is a quality reference work developed by a highly esteemed editorial board to provide a comprehensive and critical selection of reliable organic and organometallic synthetic methods This unique resource is designed to be the first point of reference when searching for a synthesis strategy Contains the expertise of presently 400 leading chemists worldwide Critically evaluates the preparative applicability and significance of the synthetic methods Discusses relevant background information and provides detailed experimental procedures For full information on the Science of Synthesis series visit the Science of Synthesis Homepage

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stereoselective analytical methods stereoselective synthesis and stereochemical aspects of the design of new compounds are also discussed     Development of New Synthetic Routes to Chiral Intermediates and Synthesis, Characterization of Novel Membrane Based Advanced Materials Guijun Wang,1999     **Chiral Separations by HPLC** Ante M. Krstulović,1989

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