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.

$$Nu^{-} \xrightarrow{X}_{Z} C - L \longrightarrow \begin{bmatrix} X \\ Nu^{\delta -} & C^{\delta +} \\ Y & Z \end{bmatrix}^{\ddagger} \longrightarrow Nu - C^{\prime \prime \prime \prime \gamma}_{Z} + L$$

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

G Thomas

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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 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 Asymmetric Synthesis V1 James Morrison, 2012-12-02 Asymmetric Synthesis Volume 1 Analytical Methods covers the major analytical methods used to determine enantiomeric ratios. This volume contains chapters that discuss the methods used to obtain chiral compounds and shows how to evaluate the chiral efficiency of an asymmetric synthesis Analytical methods such as polarimetry competitive reaction methods isotope dilution gas and liquid chromatography and nuclear magnetic resonance methods are also discussed Chemists and researchers in the field of pharmaceutical will find the book very useful Handbook of Chiral **Chemicals** David Ager, 2005-10-21 As pharmaceutical companies look to develop single enantiomers as drug candidates chemists are increasingly faced with the problems associated with this subclass of organic synthesis The Handbook of Chiral Chemicals Second Edition highlights the problems associated with the production of chiral compounds on a commercial scale The handbook fir 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

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