

Reductions by the Alumino- and Borohydrides in Organic Synthesis

SECOND EDITION



Jacqueline Seyden-Penne

WILEY-VCH

Reductions By The Alumino And Borohydrides In Organic Synthesis

Miguel E. Alonso-Amelot



Reductions By The Alumino And Borohydrides In Organic Synthesis:

Reductions by the Alumino- and Borohydrides in Organic Synthesis Jacqueline Seyden-Penne, 1997-09-01 A complete guide to selection and use of the best reagents for a wide range of transformations This book is the updated and expanded Second Edition of Jacqueline Seyden Penne s practical guide to selection of reducing reagents in organic synthesis It is an indispensable working resource for organic synthetic chemists the only reference focusing exclusively on aluminohydrides and borohydrides and their derivatives Simple to use it is organized according to specific reductions so that chemists can more easily match the best reagent to a given transformation Throughout Dr Seyden Penne emphasizes four crucial categories compatibility possibilities for partial reduction the regio and stereoselectivity of reductions that are altered or controlled by neighboring groups and asymmetric reductions Extremely well referenced **Reductions by the Alumino and Borohydrides in Organic Synthesis** provides the most up to date detailed coverage of Successful techniques for performing highly selective reductions Chemo regio stereo and enantioselective reductions of both simple and complex compounds Best methods for obtaining the main functional groups by hydridereduction provided in quick reference tabular form New and more selective reagents developed within the last five years Experimental conditions including solvent and temperature and yields for most cases described

Reductions by the Alumino- and Borohydrides in Organic Seyden-Penne, 1991-06-01 This easy to use guide allows the reader to select the right reagent for the desired reduction employed in organic synthesis Topics given special emphasis in this work include the compatibility between the reduction of the group in question and other functional groups partial reduction regio and stereo selectivity of reductions A foreword by Nobel Laureate H C Brown is also included Three convenient sections cover the enumeration on the most useful reagents reactivity of the functional groups towards reducing reagents access by hydride reduction of the main functions groups of organic chemistry in the form of synoptic tables

Modern Organic Synthesis George S. Zweifel, Michael H. Nantz, Peter Somfai, 2017-03-13 This book bridges the gap between sophomore and advanced graduate level organic chemistry courses providing students with a necessary background to begin research in either an industry or academic environment Covers key concepts that include retrosynthesis conformational analysis and functional group transformations as well as presents the latest developments in organometallic chemistry and C C bond formation Uses a concise and easy to read style with many illustrated examples Updates material examples and references from the first edition Adds coverage of organocatalysts and organometallic reagents

Essential Reagents for Organic Synthesis Philip L. Fuchs, André B. Charette, Tomislav Rovis, Jeffrey W. Bode, 2016-07-19 From Boron Trifluoride to Zinc the 52 most widely used reagents in organic synthesis are described in this unique desktop reference for every organic chemist The list of reagents contains classics such as N Bromosuccinimide NBS and Trifluoromethanesulfonic Acid side by side with recently developed ones like Pinacolborane and Tetra n propylammonium Perruthenate TPAP For each reagent a concise article provides a brief description of all important

reactions for which the reagent is being used including yields and reaction conditions an overview of the physical properties of the reagent its storage conditions safe handling laboratory synthesis and purification methods Advantages and disadvantages of the reagent compared to alternative synthesis methods are also discussed Reagents have been hand picked from among the 5000 reagents contained in EROS the Encyclopedia of Reagents for Organic Synthesis Every organic chemist should be familiar with these key reagents that can make almost every reaction work **Strategic Applications of Named**

Reactions in Organic Synthesis Laszlo Kurti, Barbara Czako, 2005-04-29 Kurti and Czako have produced an indispensable tool for specialists and non specialists in organic chemistry This innovative reference work includes 250 organic reactions and their strategic use in the synthesis of complex natural and unnatural products Reactions are thoroughly discussed in a convenient two page layout using full color Its comprehensive coverage superb organization quality of presentation and wealth of references make this a necessity for every organic chemist The first reference work on named reactions to present colored schemes for easier understanding 250 frequently used named reactions are presented in a convenient two page layout with numerous examples An opening list of abbreviations includes both structures and chemical names Contains more than 10 000 references grouped by seminal papers reviews modifications and theoretical works Appendices list reactions in order of discovery group by contemporary usage and provide additional study tools Extensive index quickly locates information using words found in text and drawings *Principles of Asymmetric Synthesis* R.E. Gawley, J. Aubé, 1996-11-21

The world is chiral Most of the molecules in it are chiral and asymmetric synthesis is an important means by which enantiopure chiral molecules may be obtained for study and sale Using examples from the literature of asymmetric synthesis more than 1300 references the aim of this book is to present a detailed analysis of the factors that govern stereoselectivity in organic reactions It is important to note that the references were each individually checked by the authors to verify relevance to the topics under discussion The study of stereoselectivity has evolved from issues of diastereoselectivity through auxiliary based methods for the synthesis of enantiomerically pure compounds diastereoselectivity followed by separation and auxiliary cleavage to asymmetric catalysis In the latter instance enantiomers not diastereomers are the products and highly selective reactions and modern purification techniques allow preparation in a single step of chiral substances in 99% ee for many reaction types After an explanation of the basic physical organic principles of stereoselectivity the authors provide a detailed annotated glossary of stereochemical terms A chapter on Analytical Methods provides a critical overview of the most common methods for analysis of stereoisomers The authors then follow the tried and true format of grouping the material by reaction type Thus there are four chapters on carbon carbon bond forming reactions enolate alkylations organometal additions to carbonyls aldol and Michael reactions and cycloadditions and rearrangements one chapter on reductions and hydroborations carbon hydrogen bond forming reactions and one on oxidations carbon oxygen and carbon nitrogen bond forming reactions Leading references are provided to natural product synthesis that have been accomplished using a given

reaction as a key step In addition to tables of examples that show high selectivity a transition state analysis is presented to explain to the current level of understanding the stereoselectivity of each reaction In one case Cram's rule the evolution of the current theory is detailed from its first tentative 1952 postulate to the current Felkin-Anh-Heathcock formalism For other reactions only the currently accepted rationale is presented Examination of these rationales also exposes the weaknesses of current theories in that they cannot always explain the experimental observations These shortcomings provide a challenge for future mechanistic investigations Science of Synthesis: Houben-Weyl Methods of Molecular Transformations Vol. 6

Dieter E. Kaufmann, Donald S. Matteson, 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 Microscale Organic Laboratory Dana W.

Mayo, Ronald M. Pike, David C. Forbes, 2010-01-12 This is a laboratory text for the mainstream organic chemistry course taught at both two and four year schools featuring both microscale experiments and options for scaling up appropriate experiments for use in the macroscale lab It provides complete coverage of organic laboratory experiments and techniques with a strong emphasis on modern laboratory instrumentation a sharp focus on safety in the lab excellent pre and post lab exercises and multi step experiments Notable enhancements to this new edition include inquiry driven experimentation validation of the purification process and the implementation of greener processes including microwave use to perform traditional experimentation *Principles of Asymmetric Synthesis* Robert E. Gawley, Jeffrey Aube, 2012-05-29 The world is chiral Most of the molecules in it are chiral and asymmetric synthesis is an important means by which enantiopure chiral molecules may be obtained for study and sale Using examples from the literature of asymmetric synthesis this book presents a detailed analysis of the factors that govern stereoselectivity in organic reactions After an explanation of the basic physical organic principles governing stereoselective reactions the authors provide a detailed annotated glossary of stereochemical terms A chapter on Practical Aspects of Asymmetric Synthesis provides a critical overview of the most common methods for the preparation of enantiomerically pure compounds techniques for analysis of stereoisomers using chromatographic spectroscopic and chiroptical methods The authors then present an overview of the most important methods in contemporary asymmetric synthesis organized by reaction type Thus there are four chapters on carbon-carbon bond forming reactions one

chapter on reductions and one on oxidations carbon oxygen and carbon nitrogen bond forming reactions This organization allows the reader to compare the leading methods for asymmetric synthesis in an appropriate context A highlight of the book is the presentation and discussion of transition states at the current level of understanding for important reaction types In addition extensive tables of examples are used to give the reader an appreciation for the scope of each reaction Finally leading references are provided to natural product synthesis that has been accomplished using a given reaction as a key step Authoritative glossary to aid understanding of stereochemical terminology Explanations of the key factors influencing stereoselectivity with numerous examples organized by reaction type A handy reference guide to the literature of asymmetric synthesis for practitioners in the field The Art of Problem Solving in Organic Chemistry Miguel E.

Alonso-Amelot, 2014-08-25 This long awaited new edition helps students understand and solve the complex problems that organic chemists regularly face using a step by step method and approachable text With solved and worked through problems the author orients discussion of each through the application of various problem solving techniques Teaches organic chemists structured and logical techniques to solve reaction problems and uses a unique systematic approach Stresses the logic and strategy of mechanistic problem solving a key piece of success for organic chemistry beyond just specific reactions and facts Has a conversational tone and acts as a readable and approachable workbook allowing reader involvement instead of simply straightforward text Uses 60 solved and worked through problems and reaction schemes for students to practice with along with updated organic reactions and illustrated examples Includes website with supplementary material for chapters and problems <http://tapsoc.yolasite.com>

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