

# **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

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Charette, Tomislav Rovis, Jeffrey W.  
Bode**

## **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 hydride reduction 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

**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

**Modern Organic Synthesis in the Laboratory** Jie Jack Li, Chris Limberakis, Derek A. Pflum, 2007-09-10 Searching for reaction in organic synthesis has been

made much easier in the current age of computer databases However the dilemma now is which procedure one selects among the ocean of choices Especially for novices in the laboratory it becomes a daunting task to decide what reaction conditions to experiment with first in order to have the best chance of success This collection intends to serve as an older and wiser lab mate one could have by compiling many of the most commonly used experimental procedures in organic synthesis With chapters that cover such topics as functional group manipulations oxidation reduction and carbon carbon bond formation Modern Organic Synthesis in the Laboratory will be useful for both graduate students and professors in organic chemistry and medicinal chemists in the pharmaceutical and agrochemical industries

**Six-Membered Transition States in Organic Synthesis** Jaemoon Yang, 2008-03-11 This book furthers readers understanding of the amazing features of six membered transition states in stereoselective organic reactions Comprehensive and logically organized it covers reactions classified in four categories 3 3 sigmatropic rearrangements aldol reactions metal allylation reactions and stereoselective reductions There is a thorough discussion of each reaction category along with computational studies that support a proposal of a six membered state The book assists professors researchers and students in proposing reasonable transition states for the description of newly discovered stereoselective reactions

**Modern Organic Synthesis** George S. Zweifel, Michael H. Nantz, Peter Somfai, 2017-03-09 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

*Modern Reduction Methods* Pher G. Andersson, Ian J. Munslow, 2008-09-08 With its comprehensive overview of modern reduction methods this book features high quality contributions allowing readers to find reliable solutions quickly and easily The monograph treats the reduction of carbonyles alkenes imines and alkynes as well as reductive aminations and cross and heck couplings before finishing off with sections on kinetic resolutions and hydrogenolysis An indispensable lab companion for every chemist

*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 *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 **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 **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

**Part B: Reactions and Synthesis** Francis A. Carey, Richard J. Sundberg, 2013-11-27 **Advanced Organic Chemistry**

Francis A. Carey, Richard J. Sundberg, 2000 Concentrating on the most important reactions used for organic synthesis this upper level textbook presents the material by reaction type The final chapter discusses the planning and execution of multi step synthesis *Methods and Strategies for C-N Bond Formation Reactions* Zahra Taherinia, Maryam Hajjami, Arash Ghorbani-Choghamarani, 2023-12-15 Organic compounds containing amino groups are one of the most important classes of chemicals in both academia and industry This class of materials is a very important structural motif in organic synthesis due to its widespread applications in natural products agrochemicals pharmaceuticals and advanced materials This book is a concise overview of modern approaches to N alkylation and N arylation of primary secondary and tertiary amines using alkylating and arylating reagents with amino sources found in both basic and applied chemical research The work also discusses key examples of amine synthesis from a sustainable perspective using deep eutectic solvents and the application of amines in different areas It is an ideal reference for advanced and postgraduate students as well as academic and industrial chemists working in organic natural product catalytic medicinal and polymer chemistry *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 *General and Synthetic Methods* G Pattenden, 2007-10-31 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 **Comprehensive Organic Functional Group Transformations II**, 2004-12-16 Comprehensive Organic Functional Group Transformations II COFGT II will provide the first point of entry to the literature for all scientists interested in chemical transformations Presenting the vast subject of organic synthesis in terms of the introduction and interconversion of all known functional groups COFGT II provides a unique information source documenting all methods of efficiently performing a particular transformation Organised by the functional group formed COFGT II consists of 144 specialist reviews written by leading scientists who evaluate and summarise the methods available for each functional group transformation Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) By systematically treating each functional group in turn the work also identifies what is not known thus pointing the way to new research areas Follows the systematic layout of the successful 1995 COFGT reference work based on the arrangement and bonding of hetero atoms around a central carbon atom The work will save researchers valuable time in their research as each chapter is written by

experts who have critically read and reviewed the literature and presented the best methods of forming every known functional group

*March's Advanced Organic Chemistry* Michael B. Smith, 2020-02-19 The completely revised and updated definitive resource for students and professionals in organic chemistry The revised and updated 8th edition of March's Advanced Organic Chemistry Reactions Mechanisms and Structure explains the theories of organic chemistry with examples and reactions This book is the most comprehensive resource about organic chemistry available Readers are guided on the planning and execution of multi step synthetic reactions with detailed descriptions of all the reactions The opening chapters of March's Advanced Organic Chemistry 8th Edition deal with the structure of organic compounds and discuss important organic chemistry bonds fundamental principles of conformation and stereochemistry of organic molecules and reactive intermediates in organic chemistry Further coverage concerns general principles of mechanism in organic chemistry including acids and bases photochemistry sonochemistry and microwave irradiation The relationship between structure and reactivity is also covered The final chapters cover the nature and scope of organic reactions and their mechanisms This edition Provides revised examples and citations that reflect advances in areas of organic chemistry published between 2011 and 2017 Includes appendices on the literature of organic chemistry and the classification of reactions according to the compounds prepared Instructs the reader on preparing and conducting multi step synthetic reactions and provides complete descriptions of each reaction The 8th edition of March's Advanced Organic Chemistry proves once again that it is a must have desktop reference and textbook for every student and professional working in organic chemistry or related fields Winner of the Textbook Academic Authors Association 2021 McGuffey Longevity Award

**Pincer Compounds** David Morales-Morales, 2018-04-11 Pincer Compounds Chemistry and Applications offers valuable state of the art coverage highlighting highly active areas of research from mechanistic work to synthesis and characterization The book focuses on small molecule activation chemistry particularly H<sub>2</sub> and hydrogenation earth abundant metals such as Fe actinides carbene pincers chiral catalysis and alternative solvent usage The book covers the current state of the field featuring chapters from renowned contributors covering four continents and ranging from still active pioneers to new names emerging as creative strong contributors to this fascinating and promising area Over a decade since the publication of Morales Morales and Jensen's The Chemistry of Pincer Compounds Elsevier 2007 research in this unique area has flourished finding a plethora of applications in almost every single branch of chemistry from their traditional application as very robust and active catalysts all the way to potential biological and pharmaceutical applications Describes the chemistry and applications of this important class of organometallic and coordination compounds Includes contributions from global leaders in the field featuring pioneers in the area as well as emerging experts conducting exciting research on pincer complexes Highlights areas of promising and active research including small molecule activation earth abundant metals and actinide chemistry

**Purification of Laboratory Chemicals** W.L.F. Armarego, Christina Li Lin Chai, 2013 A best seller since 1966



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