
COMPREHENSIVE ORGANIC SYNTHESIS

*Selectivity, Strategy & Efficiency
in Modern Organic Chemistry*

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Oxidation*

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Oxidation Selectivity Strategy Efficiency In Modern Organic Chemistry Comprehensive Organic Synthesis

SJ Ball



Oxidation Selectivity Strategy Efficiency In Modern Organic Chemistry Comprehensive Organic Synthesis:

Oxidation Barry M. Trost, 1992-09-08 This volume covers all methods of oxidation for use in organic synthesis Emphasis has been placed on selectivity and functional group compatibility together with practical utility and applications The volume is broadly divided to cover oxidation of unactivated carbon hydrogen bonds oxidation of activated carbon hydrogen bonds that is to say those adjacent to activating substituents and adjacent to heteroatoms and oxidation of carbon carbon double bonds The volume also covers oxidation of C X bonds carbon carbon single bonds heteroatom oxidation and a number of special topics such as electrochemical methods oxidative rearrangements solid supported reagents electron transfer oxidation and biological methods

Comprehensive Organic Synthesis B. M. Trost, I. Fleming, 1991-07-14 The development of more effective routes to known materials and the production of new materials are important goals in many areas including electronics agriculture medicine and textiles Organic synthesis is central to achieving these goals Comprehensive Organic Synthesis draws together the common themes that underlie the many apparently disparate areas of organic chemistry which underpin synthetic strategies thus providing a comprehensive overview of this important discipline The contributions have been organized to reflect the way in which synthetic chemists approach a problem In terms of organic molecules the work is divided into formation of carbon carbon bonds introduction of heteroatoms and heteroatom interconversions Thus Volumes 1 5 focus on carbon carbon formation but also include aspects of heteroatom introduction Volumes 6 8 concentrate on interconversion of heteroatoms but also deal with exchange of carbon carbon bonds for carbon heteroatom bonds Organization of the chapters is along the theme of selectivity which is a critical question in determining the suitability of a synthetic method Volume 9 contains cumulative author and subject indexes Comprehensive Organic Synthesis will appeal to a wide audience The set will be an essential reference work for all those seeking information on the solution of synthetic problems whether they be experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find Comprehensive Organic Synthesis an invaluable source providing authoritative accounts of the essential facts and concepts

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Comprehensive Organic Synthesis, 2014-02-14 The second edition of Comprehensive Organic Synthesis winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry These themes support effective and efficient synthetic strategies thus providing a comprehensive overview of this important discipline Fully revised and updated this new set forms an essential reference work for all those seeking information on the solution of synthetic problems whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find Comprehensive Organic Synthesis Second Edition Nine Volume Set an invaluable source providing an authoritative overview of core concepts Winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers Contains more than 170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than 10 000 schemes and images Fully revised and updated important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively

Comprehensive Organic Synthesis Barry M. Trost, 1991 Volume 8 *Reduction* Barry M. Trost, 1992-09-08 This volume contains 37 chapters on methods for reducing functional groups organized into four main parts i Reduction of C X systems where X is an electronegative heteroatom divided into 14 chapters based on the degree of reduction the oxidation level of the C X substrate and on the nature of the reagent ii Reduction of X Y systems divided into three chapters covering the reduction of such groups as nitro azo and the various kinds of P O and S O groups iii Reduction of C C and C C divided into 12 chapters based on the method of reduction with aromatic heteroaromatic and conjugated systems treated separately and including an extensive discussion of hydrometallation iv Reduction of single bonds C X to C H in eight chapters including the hydrogenolysis of the various kinds of C X bonds the reduction of epoxides and the reduction of vinyl derivatives to alkenes Each chapter includes a discussion of chemoselectivity regioselectivity and stereoselectivity wherever it is appropriate and most include advice on the reagent of choice and the mechanistic basis of the various methods of reduction In short it is within the space available as near to a comprehensive

account of reduction in organic chemistry as one could hope for Comprehensive Organic Synthesis B. M. Trost, I. Fleming, 1991-07-14 The development of more effective routes to known materials and the production of new materials are important goals in many areas including electronics agriculture medicine and textiles Organic synthesis is central to achieving these goals Comprehensive Organic Synthesis draws together the common themes that underlie the many apparently disparate areas of organic chemistry which underpin synthetic strategies thus providing a comprehensive overview of this important discipline The contributions have been organized to reflect the way in which synthetic chemists approach a problem In terms of organic molecules the work is divided into formation of carbon carbon bonds introduction of heteroatoms and heteroatom interconversions Thus Volumes 1 5 focus on carbon carbon formation but also include aspects of heteroatom introduction Volumes 6 8 concentrate on interconversion of heteroatoms but also deal with exchange of carbon carbon bonds for carbon heteroatom bonds Organization of the chapters is along the theme of selectivity which is a critical question in determining the suitability of a synthetic method Volume 9 contains cumulative author and subject indexes Comprehensive Organic Synthesis will appeal to a wide audience The set will be an essential reference work for all those seeking information on the solution of synthetic problems whether they be experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find Comprehensive Organic Synthesis an invaluable source providing authoritative accounts of the essential facts and concepts Comprehensive Organic Synthesis: Oxidation, 1991

Strategies and Solutions to Advanced Organic Reaction Mechanisms Andrei Hent, John Andraos, 2019-06-26 Strategies and Solutions to Advanced Organic Reaction Mechanisms A New Perspective on McKillop's Problems builds upon Alexander Sandy McKillop's popular text Solutions to McKillop's Advanced Problems in Organic Reaction Mechanisms providing a unified methodological approach to dealing with problems of organic reaction mechanism This unique book outlines the logic experimental insight and problem solving strategy approaches available when dealing with problems of organic reaction mechanism These valuable methods emphasize a structured and widely applicable approach relevant for both students and experts in the field By using the methods described advanced students and researchers alike will be able to tackle problems in organic reaction mechanism from the simple and straight forward to the advanced **Oxidation** Barry M. Trost, 1991 Volume 7 **Proceedings of the Estonian Academy of Sciences, Chemistry**, 2001-09

Comprehensive Organic Synthesis: Additions to and substitutions at C-C[pi]-Bonds Barry M. Trost, 1991 Volume 4 focuses on additions and the resulting substitutions at carbon carbon bonds Part 1 includes processes generally considered as simple polar reactions reactive electrophiles and nucleophiles adding to alkenes and alkynes A major topic is Michael type addition to electron deficient bonds featured in the first six chapters In part 2 are collected the four general processes leading to nucleophilic aromatic substitution including radical chain processes and transition metal activation through to

complexation Metal activated addition generally by nucleophiles to alkenes and polyenes is presented in part 3 including allylic alkylation catalyzed by palladium The coverage of nonpolar additions in part 4 includes radical additions organometal addition Heck reaction carbene addition and 1,3 dipolar cycloadditions *Modern Synthetic Methods 1995* Beat Ernst, Christian Leumann, 1995 The collection of the six contributions of the 7th International Seminar on Modern Synthetic Methods written by leading experts in their fields gives an overview on the state of the art trends and new accomplishments in solvent effects on chemical transformations in reactions on surfaces in the synthesis of oligosaccharides and nucleic acid analogues and in antibody catalysis This volume is an invaluable companion to both the active research chemists and the advanced students fascinated by the world of biologically important compounds and by the creativity in synthetic techniques directed towards their preparation **Solar Light-to-Hydrogenated Organic Conversion** Hairus Abdullah, 2024-01-03

This book highlights the promising photocatalytic methods for synthesizing organic chemicals by simultaneously degrading the toxicity of raw substances used for organic synthesis It presents various semiconducting materials with high catalytic activities in hydrogen evolution reactions HERs and hydrogenation reactions as well as the material characterizations for identifying semiconductor photocatalysts The focus is on understanding the hydrogen dissociation and activation of substances in the process of hydrogenation and the fabrication of nanostructured catalysts with desired activity and selectivity Recent works show photocatalytic hydrogenation reactions with in situ generated H₂ on catalyst surfaces utilizing initial chemicals such as nitrophenol nitrobenzene azobenzene and benzene for valorization In addition the photocatalytic valorization of waste glycerol is also discussed Besides the hydrogenation reactions the reduction of oxygen to form H₂O₂ can be done with a photocatalytic method in atmospheric conditions Some related perspectives and outlooks are also discussed for possible future development **Comprehensive Organic Synthesis: Heteroatom manipulation**, 1991

Heteroatom Manipulation E. Winterfeldt, 1992-09-08 In this volume those functional groups containing heteroatoms that have gained importance in organic synthesis are dealt with in detail The introduction of these various groups and their relevant transformations are described and the various aspects of chemoselectivity regioselectivity and stereoselectivity are discussed After a compilation of the synthetically most useful substitution processes there is a series of chapters on the various types of acylation reactions and in this context the different methods of acyl group activation are discussed As functional group protection is of very general importance for organic synthesis a corresponding chapter is included This is followed by a section on the preparation of carbonyl derivatives and the most important transformations and rearrangements of functional group derivatives At the end of the volume one finds chapters on all types of elimination reactions and related thermal reactions together with a survey on fragmentation processes in organic synthesis *Introduction to Strategies for Organic Synthesis* Laurie S. Starkey, 2018-03-23 Bridging the Gap Between Organic Chemistry Fundamentals and Advanced Synthesis Problems *Introduction to Strategies of Organic Synthesis* bridges the knowledge gap between sophomore level

organic chemistry and senior level or graduate level synthesis to help students more easily adjust to a synthetic chemistry mindset Beginning with a thorough review of reagents functional groups and their reactions this book prepares students to progress into advanced synthetic strategies Major reactions are presented from a mechanistic perspective and then again from a synthetic chemist's point of view to help students shift their thought patterns and teach them how to imagine the series of reactions needed to reach a desired target molecule Success in organic synthesis requires not only familiarity with common reagents and functional group interconversions but also a deep understanding of functional group behavior and reactivity This book provides clear explanations of such reactivities and explicitly teaches students how to make logical disconnections of a target molecule This new Second Edition of Introduction to Strategies for Organic Synthesis Reviews fundamental organic chemistry concepts including functional group transformations reagents stereochemistry and mechanisms Explores advanced topics including protective groups synthetic equivalents and transition metal mediated coupling reactions Helps students envision forward reactions and backwards disconnections as a matter of routine Gives students confidence in performing retrosynthetic analyses of target molecules Includes fully worked examples literature based problems and over 450 chapter problems with detailed solutions Provides clear explanations in easy to follow student friendly language Focuses on the strategies of organic synthesis rather than a catalogue of reactions and modern reagents The prospect of organic synthesis can be daunting at the outset but this book serves as a useful stepping stone to refresh existing knowledge of organic chemistry while introducing the general strategies of synthesis Useful as both a textbook and a bench reference this text provides value to graduate and advanced undergraduate students alike

Glycopeptides and Related Compounds David G. Large, Christopher D. Warren, 1997-05-06 Presents state of the art methods for the synthesis analysis and conformational investigation of glycoproteins and glycopeptides Discusses the history of glycopeptide synthesis therapeutic applications and the future of research *Comprehensive Organic Synthesis* Barry M. Trost, 1991

Carbon-Carbon σ -Bond Formation G. Pattenden, 1992-09-08 Volume 3 covers carbon to carbon single bond forming reactions involving sp^3 sp^2 and sp carbon centers but only those which do not involve additions to C X bonds The volume first compares and contrasts the alkylation reactions of all types of sp^3 carbon nucleophiles and also covers vinyl and alkynyl carbanions Following on from Volume 2 a separate section covers Friedel Crafts alkylation reactions which is complemented by discussions of polyene cyclizations and electrophilic transannular cyclizations in synthesis Coupling reactions leading to bond formation and involving all types of combinations of sp^3 sp^2 and sp carbon centers are next covered including those reactions based on pinacol acyloin and phenol oxidative coupling reactions and also the Kolbe reaction Rearrangement reactions leading to carbon to carbon bond formation are often used in a clever manner in synthesis The volume includes all those rearrangement reactions based on intermediate carbonium ions and carbanions and also includes the benzil benzilic acid and the Wolff rearrangements The volume closes with coverage of carbonylation reactions and the use of carbene

insertion reactions into the C H bond in synthesis

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