

BEST SYNTHETIC METHODS

# Methods for the Oxidation of Organic Compounds

Alkanes, Alkenes,  
Alkynes, and Arenes

ALAN H. HAINES

# Methods For The Oxidation Of Organic Compounds

## Alkanes Alkenes Alkynes And Arenes

**Ning Jiao**



## **Methods For The Oxidation Of Organic Compounds Alkanes Alkenes Alkynes And Arenes:**

**Methods for Oxidation of Organic Compounds V1** Alan Haines, 2012 Methods for the Oxidation of Organic Compounds Alkanes Alkenes Alkynes and Arenes is an account of the different methods used for the controlled oxidation of alkanes alkenes alkynes and arenes Most of the oxidative techniques considered are illustrated with detailed experimental procedures taken from the literature This book is comprised of five chapters and begins with a discussion on alkanes alkyl groups and hydrocarbon residues The formation of alkenes alcohols hydroperoxides dialkyl peroxides cyclic peroxides ethers and esters as well as aldehydes ketones and carboxylic acids is described together with the aromatization of cyclic systems The following chapters are devoted to alkenes alkynes and arenes and focus on the formation of compounds ranging from 1,2 diols and oxiranes 1,2 epoxides to 1,2 dicarbonyl compounds phenols and their derivatives and quinones The formation of dialkynes by oxidative coupling of 1 alkynes is described along with the oxidative cleavage of arenes and oxidative coupling of phenols This monograph should be of interest to organic chemists and research students

**Methods for Oxidation of Organic Compounds V2** Alan Haines, 2012-12-02 Methods for the Oxidation of Organic Compounds Alcohols Alcohol Derivatives Alkyl Halides Nitroalkanes Alkyl Azides Carbonyl Compounds Hydroxyarenes and Aminoarenes describes the different methods used for the controlled oxidation of alcohols alcohol derivatives alkyl halides nitroalkanes alkyl azides carbonyl compounds hydroxyarenes and aminoarenes Most of the oxidative techniques considered are illustrated with detailed experimental procedures taken from the literature This book is comprised of eight chapters and begins with a discussion on the oxidation of alcohols with particular emphasis on the formation of carbonyl compounds and carboxylic acids The following chapters focus on the oxidation of esters and alkyl halides ethers acetals and metal derivatives of alcohols amines nitro compounds and azides carbonyl compounds 1,2 diols and related compounds and hydroxyarenes aminoarenes dihydroxyarenes diaminoarenes and aminohydroxyarenes Methods such as catalytic oxidation catalytic dehydrogenation and electrochemical and biochemical oxidation are mentioned This monograph should be of interest to organic chemists and research students

*Organomagnesium Methods in Organic Chemistry* Basil J. Wakefield, 1995-03-16 The book opens with a general overview of the constitution and reactivity of organomagnesium compounds followed by information on handling them and on their detection and estimation Throughout practical aspects as well as principles are emphasized The chapters on the synthesis of organomagnesium compounds cover

the preparation of special forms of metallic magnesium and the reaction of magnesium with substrates such as dienes as well as the traditional preparation of Grignard reagents Preparations by metallation and metal halogen exchanges are also included as are newer methods such as hydromagnesiation of alkenes and alkynes Systematic coverage is provided on synthetically useful reactions of organomagnesium compounds Of fundamental importance in organic synthesis are carbon carbon bond forming reactions additions to carbon carbon carbon nitrogen carbon oxygen and carbon sulfur multiple bonds and nucleophilic substitution at carbon The formation of carbon heteroatom bonds in organic compounds is described where the heteroatom is hydrogen nitrogen oxygen sulfur or halogen Finally the use of organomagnesium compounds in preparing other organometalloid and organometallic compounds is outlined Representative experimental procedures are included throughout the book and tables with references to well described examples are provided Presents a general overview of the constitution and reactivity of organomagnesium compounds Provides coverage on the detection and estimation of organomagnesium compounds Emphasizes practical aspects as well as principles Covers the preparation of special forms of metallic magnesium and the reaction of magnesium with substrates such as dienes Includes preparations by metallation and metal halogen exchanges Reviews new preparation methods such as hydromagnesiation of alkenes and alkynes Outlines information on synthetically useful reactions of organomagnesium compounds Describes the formation of carbon heteroatom bonds in organic compounds Addresses the use of organomagnesium compounds in preparing other organometalloid and organometallic compounds Includes representative procedures and tables with references to well described examples

**General and Synthetic Methods** G. Pattenden, 1988 Annotation Volume 10 covers the literature published in 1985 Topics reviewed are saturated and unsaturated hydrocarbons aldehydes and ketones carboxylic acids and derivatives alcohols halogeno compounds and ethers amines nitrites and other nitrogen containing functional groups organometallics in synthesis saturated carbocyclic ring synthesis saturated heterocyclic ring synthesis and highlights of total synthesis of natural products Author index only Produced from uniform double spaced typescript Annotation c 2003 Book News Inc Portland OR booknews com

**Arene Chemistry** Jacques Mortier, 2015-12-14 Organized to enable students and synthetic chemists to understand and expand on aromatic reactions covered in foundation courses the book offers a thorough and accessible mechanistic explanation of aromatic reactions involving arene compounds Surveys methods used for preparing arene compounds and their transformations Connects reactivity and methodology with mechanism Helps readers apply aromatic reactions in a practical context by designing syntheses Provides essential information about techniques used to determine reaction mechanisms

**Biotransformations Preparative Organic Chemistry** H. G. Davies, Ralph Green, D. R. Kelly, Stanley M. Roberts, 2012-12-02 This volume is designed for chemists working in an organic chemistry laboratory and for all scientists with an interest in biotransformations It summarizes the important aspects of work in the burgeoning field of biotransformations the missing text

**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

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**Organic Mechanisms** Reinhard Bruckner, 2010-04-30 Much of life can be understood in rational terms if expressed in the language of chemistry It is an international language a language without dialects a language for all time a language that explains where we came from what we are and where the physical world will allow us to go Chemical Language has great esthetic beauty and links the physical sciences to the biological sciences from The Two Cultures Chemistry and Biology by Arthur Kornberg Nobel Prize in Physiology and Medicine 1959 Over the past two centuries chemistry has evolved from a relatively pure disciplinary pursuit to a position of central importance in the physical and life sciences More generally it has provided the language and methodology that has unified integrated and indeed molecularized the sciences shaping our understanding of the molecular world and in so doing the direction development and destiny of scientific research The language of chemistry referred to by my former Stanford colleague is made up of atoms and bonds and their interactions It is a system of knowledge that allows us to understand structure and events at a molecular level and increasingly to use that understanding to create new knowledge and beneficial change The words on this page for example are detected by the eye in a series of events now generally understood at the molecular level

**Modern Gold Catalyzed Synthesis** A. Stephen K. Hashmi, F. Dean Toste, 2012-05-21 With its impressive features gold has led to completely new reaction types in recent years which in turn have strongly influenced both organic catalysis and material science Other fields where a significant amount of new results has been obtained include nanotechnology self assembly supramolecular systems and biochemical medicinal chemistry As a result gold is one of the hottest topics in catalysis at the moment with an increasing amount of research being carried out in this field While focusing on homogeneous catalysis this monograph also covers the main applications in heterogeneous catalysis Following a look at the gold catalyzed addition of heteroatom nucleophiles to alkynes it goes on to discuss gold catalyzed additions to allenes and alkenes gold catalyzed benzannulations cycloisomerization and rearrangement reactions as well as oxidation and reduction reactions The whole is finished off with a section on gold catalyzed aldol and related reactions and the application of gold catalyzed reactions to natural product synthesis Of interest to synthetic chemists and inorganic chemists as well as organic chemists working in homogeneous catalysis physical and technical chemists

**Free Radical Chain Reactions in Organic Synthesis** William B.

Motherwell, David Crich, 2013-10-22 Written for both the experienced practitioner and the newcomer this book provides essential guidance to the practical aspects of free radical chain reactions The book presents tried and tested synthetic schemes as well as a selection of recently developed methods describing rationally designed highly efficient syntheses giving high yield interconversions of functional groups and carbon-b1carbon bond formation under mild neutral conditions Written by two experienced practitioners in the field this volume explodes the myth that free radicals are highly reactive non selective intermediates Contains an extensive introduction discussing principles advantages and disadvantages of radical chain reactions Demonstrates functional group interconversions by radical chain reactions Lists carbon-b1carbon bond formations Presents inter and intramolecular radical chain reactions Includes many examples and experimental details selected by experienced practitioners in this field     Oxidation Barry M. Trost, 1991 Volume 7     *Aromatic Chemistry* John D. Hepworth, David R. Waring, Michael J. Waring, 2002 This book provides an up to date and comprehensive account of aromatic chemistry A series of chapters describes the synthesis and reactions of the major functional derivatives of benzene and the more common polycyclic systems The concept of aromaticity and the mechanism of aromatic substitution are discussed as is the use of metals in the synthesis of aromatic compounds Throughout emphasis is placed on mechanisms Worked problems and questions are provided to aid understanding In addition to providing material required by an undergraduate studying chemistry *Aromatic Chemistry* is also ideal for industrial chemists seeking to update their knowledge of this important aspect of chemistry Ideal for the needs of undergraduate chemistry students *Tutorial Chemistry Texts* is a major new series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses Each book provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples     Part B: Reactions and Synthesis Francis A. Carey, Richard J. Sundberg, 2013-11-27     *Photochemical Synthesis* I. Ninomiya, T. Naito, 2012-12-02 The Best Synthetic Methods Series is aimed at practising organic chemists who require up to date details of working methods for the synthesis of organic compounds This volume concentrates on the synthesis of compounds with specific types of structures which has not been possible by standard thermal methods For ease of use the photochemical reactions covered have been presented by their functional groups     *Nitrogenation Strategy for the Synthesis of N-containing Compounds* Ning Jiao, 2016-11-15 This book focuses on direct nitrogenation strategies to incorporate one or more N atoms into simple substrates especially hydrocarbons via C-H and/or C-C bond cleavage which is a green and sustainable way to synthesize nitrogen containing compounds The book consists of seven chapters demonstrating interesting advances in the preparation of amines amides nitriles carbamides azides and N heterocyclic compounds and illustrating the mechanisms of these novel transformations It offers an accessible introduction to nitrogenation reactions for chemists involved in N compound synthesis and those interested in discovering new reagents and reactions Ning Jiao is a Professor of Chemistry at Peking University

China     **Sulfur Reagents in Organic Synthesis** Patrick Metzner, Andre Thuillier, 2013-10-22 Designed for the practising organic chemist this book details over a hundred experimental procedures using sulfur compounds in organic synthesis Many of these methods are new to the literature having been published since 1991 and illustrate the striking versatility of the use of sulfur reagents Examples are simple to perform and extremely useful and as such this book will be an invaluable aid to all involved in synthetic organic chemistry whether in academic or industrial laboratories     Chemistry of the Platinum Group Metals F.R. Hartley, 2013-10-22 The chemistry of platinum group metals is a rapidly expanding commercially important field It is dominated by the catalytic properties of the metals They are useful in petrochemical and general chemical plants and are becoming increasingly important as autocatalysts for pollution control The book covers recent developments in the chemistry of the six platinum group metals namely platinum palladium rhodium iridium ruthenium and osmium The material falls into three broad areas Firstly the occurrence extraction and use of the metals especially in catalysis electrochemistry energy and electronics Secondly organometallic and homogeneous catalytic chemistry and last but not least coordination chemistry including biochemistry and cancer therapy The work is aimed at scientists in universities and in industry using any of the six platinum group metals in research It will be useful for those studying the compounds of the metals themselves and those considering to use either the metals or their complexes and catalysts in their experimental work     Quaternary Ammonium Salts R. Alan Jones, 2000-11-14 This text provides experimental methods for a wide range of organic reactions systematically arranged according to reaction type and describes the advantages and limitations of the procedures Traditional methods to speed up organic reactions involve energy consuming processes and costly and environmentally unfriendly solvents Additionally isolation of the product requires energy and time consuming purification processes A simple solution especially for reactions involving anionic reactants is the use of phase transfer catalysis Quaternary ammonium cations have the ability to transfer the anionic reactants as non solvated ion pairs from aqueous media into organic media The resultant effect is to increase the rate of the organic reaction by enhancing the reactivity of the anionic species and increasing the encounter rate with the organic substrate Side reactions are frequently eliminated so that the overall yield of the desired product is increased Quaternary Ammonium Salts presents procedures for reducing reaction times and the need for extreme conditions which are frequently encountered under standard reaction procedures This is the only book to be published on quaternary ammonium salts Best Synthetic Methods volumes allow the practicing synthetic chemist to choose between all the alternatives and assess their real advantages and limitations Each volume of the series deals with a particular topic from a practical point of view giving detailed examples and precise experimental directions and hints With the emphasis on laboratory use these volumes represent a comprehensive and practical guide to modern synthetic organic chemistry

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