

Handbook of Reagents for Organic Synthesis

Set I, 4 Volume Set

Robert M. Coates

Handbook Of Reagents For Organic Synthesis

Terry C. Jones



Handbook Of Reagents For Organic Synthesis:

Handbook of Reagents for Organic Synthesis André B. Charette, 2017-06-26 The Handbook is a compilation of 99 articles on diverse reagents and catalysts that describe the synthesis of heteroarenes the building blocks of a wide range of chemicals used in pharma and chemical industries Articles are selected from the e EROS database and edited to make sure that it includes only the material relevant to the topic of the book and focus on the synthetic aspects This makes the articles very focused on the needs of readers wanting information on specific syntheses of specific heteroarenes In addition the chemistry of each parent heteroarene is also included to ensure that the reader rapidly finds important information The Handbook is a part of the Handbook of Reagents for Organic Chemistry series aiming at collecting articles on a particular theme that individual researchers in academia or industry can use on a daily basis

Reagents for Radical and Radical Ion Chemistry David Crich, 2013-05-30 Radicals and radical ions are important intermediates with wide use in organic synthesis The first book to concentrate on reagents for the creation and use of radicals and radical ions this new volume in the Handbooks of Reagents for Organic Synthesis series compiles articles taken from the e eros database on reagents for use in radical and radical chemistry to help the chemist in the lab choose the right reagents Reflecting the enormous growth of radical chemistry over the past ten years this is an essential guide for all synthetic chemists

Handbook of Reagents for Organic Synthesis André B. Charette, 2015-09-28 Heteroarenes are among the most prevalent structural units in natural products pharmaceuticals agrochemicals and other compounds of scientific or commercial interest In the last decade a broad range of novel synthetic methods has been developed to not only facilitate construction of the heteroarene motif but to enable its modification through direct C H functionalization This Handbook describes 117 key reagents for selective heteroarene functionalization reactions including both traditional and transition metal catalyzed C H functionalization Since these reactions typically involve one heteroarene a coupling partner and a catalyst the handbook not only focuses on the catalyst itself but also contains other key reaction species All the information compiled in this volume is also available in electronic format on Wiley Online Library The 117 reagents represented here are but a small fraction of the ca 5 000 reagents available in the electronic Encyclopedia of Reagents for Organic Synthesis e EROS e EROS offers various search interfaces to locate reagents of interest including chemical structure substructure and reactions search modes e EROS is updated regularly with new and updated entries

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that the reader rapidly finds important information The Handbook is a part of the Handbook of Reagents for Organic Chemistry series aiming at collecting articles on a particular theme that individual researchers in academia or industry can use on a daily basis Handbook of Reagents for Organic Synthesis Tomislav Rovis, 2016-10-20 Spurred by the desire to make chemistry a sustainable and greener technology the field of organocatalysis has grown to become one of the most important areas in synthetic organic chemistry Organic catalysts can often replace potentially toxic metal catalysts and allow reactions to proceed under mild reaction conditions thereby saving energy costs and rendering chemical processes inherently safer More importantly perhaps organocatalysis offers a complementary reactivity in many instances leading to increased versatility This Handbook describes 126 key reagents for organocatalytic reactions and will be especially useful for professionals in the area of sustainable chemistry medicinal research as well as synthetic organic chemists working in academia and the pharmaceutical industry All the information compiled in this volume is also available in electronic format on Wiley Online Library The 126 reagents represented here are but a small fraction of the ca 5 000 reagents available in the electronic Encyclopedia of Reagents for Organic Synthesis e EROS e EROS offers various search interfaces to locate reagents of interest including chemical structure substructure and reactions search modes e EROS is updated regularly with new and updated entries **Handbook of Reagents for Organic Synthesis: Reagents for direct functionalization of C-H bonds** Philip L. Fuchs, 1999 A concise and informative collection of articles on the synthesis of organic biological and medicinal materials Key Features Detailed information on 200 reagents to be used for the functionalization of C H bonds in the carbon backbone of organic molecules A systematic approach to the use of organometallic compounds in organic synthesis Articles will stress chemical aspects such as yield conversion specificity enantio stereo regio chemo and where applicable catalyst loading turnover Reagents for Silicon-Mediated Organic Synthesis Philip L. Fuchs, 2013-05-30 Over the last three decades the importance of organosilicon chemistry has greatly increased because it has opened a number of new synthetic strategies Silicon reagents are usually low cost versatile and allow a wide range of reactions This is the first Handbook to compile essential Silicon containing reagents and makes use of the leading reagent database e EROS Another hot volume in the series Handbooks of Reagents for Organic Synthesis this is a must have resource for all synthetic chemists working in drug development and medicinal chemistry For the selection the Editor focussed on three key synthetic approaches with the greatest impact 1 Use of silicon as a temporary tether by unifying a reactive pair of functional groups and taking advantage of their template biased intramolecular cyclization 2 The specific use of the silane functionality as a hetero tert butyl group often colloquially referred to as the use of silicon as a fat proton 3 The use of the Brook rearrangement as an anion relay stratagem A new feature in this Handbook is the reagent finder alphabetically organized lookup table arranged by organic functionality and specific structure of the silicon atom to which it is bound Handbook of Reagents for Organic Synthesis André B. Charette, 2015-07-15 Heteroarenes are among the most prevalent structural units in

natural products pharmaceuticals agrochemicals and other compounds of scientific or commercial interest In the last decade a broad range of novel synthetic methods has been developed to not only facilitate construction of the heteroarene motif but to enable its modification through direct C H functionalization This Handbook describes 117 key reagents for selective heteroarene functionalization reactions including both traditional and transition metal catalyzed C H functionalization Since these reactions typically involve one heteroarene a coupling partner and a catalyst the handbook not only focuses on the catalyst itself but also contains other key reaction species All the information compiled in this volume is also available in electronic format on Wiley Online Library The 117 reagents represented here are but a small fraction of the ca 5 000 reagents available in the electronic Encyclopedia of Reagents for Organic Synthesis e EROS e EROS offers various search interfaces to locate reagents of interest including chemical structure substructure and reactions search modes e EROS is updated regularly with new and updated entries

Catalytic Oxidation Reagents Philip L. Fuchs, 2013-07-29 The Handbook is part of the Handbook of Reagents for Organic Chemistry series aiming at collecting articles on a particular theme that individual researchers in academia or industry can use on a daily basis The Handbook starts with a section discussing the most important aspects of heteroarene functionalization The introduction is followed by the alphabetical listing of the most relevant reagents drawn from the EROS database The Editor Andr Charette from the University of Montreal has selected 120 reagent descriptions many of them updated with heteroarene specific reactions for this Handbook Following the standard format for EROS each article contains an overview of the synthesis and physical properties of the reagents or catalyst conditions for its storage and purification methods Given the importance of heteroarenes in biology and especially in medicinal chemistry a Handbook that focuses exclusively on heteroarene functionalization has been long overdue This Handbook will have a broad appeal to many individuals engaged in the area of medicinal chemistry fine chemical synthesis and industrial scale chemistry Key features Builds on the success of the previously published Handbooks of Reagents for Organic Synthesis Compares the numerous new C H functionalization reactions that have been developed in the past decade Heteroarene functionalization is widely used in the development of pharmaceuticals and other bioactive compounds Contains listings of secondary reagents for which more information is available in the online edition

Reagents for Glycoside, Nucleotide, and Peptide Synthesis David Crich, 2005-10-21 This handbook collects together short informative articles on approximately 250 of the most widely used reagents in the field into a single volume Each of the articles drawn from the e EROS database contains a summary of the most pertinent reactions for every reagent with references to the original literature This handbook will have a broad appeal and should find a home in every organic chemistry laboratory and library Compiles all the essential reagents for syntheses on and with biomolecules Gives key information on protection bond formation and deprotection An essential resource for all synthetic chemists working in drug development and medicinal chemistry Makes use of the leading reagent database e EROS

Encyclopedia of Reagents for Organic Synthesis, 14

Volume Set ,2009-04-27 At last the long anticipated second edition of the highly successful Encyclopedia of Reagents for Organic Synthesis EROS is publishing in print in March 2009 With its wealth of valuable information excellent editorial leadership and methodical classification EROS has become the authoritative reference source on reagents and catalysts This makes EROS vital reading for everybody working in organic synthesis It has wide appeal with relevance not only to Organic Chemists but also to Inorganic Physical and Analytical Chemists Materials Scientists Chemical Engineers Biochemists Medicinal and Pharmaceutical Chemists and Pharmacologists In short it is an essential product for all academic and industrial chemistry laboratories and libraries COMPREHENSIVE With its 50 000 reactions and 4 111 reagents Encyclopedia of Reagents for Organic Synthesis offers readers a substantial wealth of information Each entry contains where available CAS numbers InChI and InChIKeys Alternative names and structures Details on availability and physical properties including solubility form in which it is supplied purification methods form obtainable in purification and preparation methods Extensive reviews Examples of transformations for each reagent with reaction schemes Comparison of one agent's specific properties with those of others capable of equivalent chemistry together with reaction schemes Stereo regio and enantio control properties Required precautions for working with the reagent The various uses and characteristics of each reagent with illustrative examples Related literature METHODICAL Encyclopedia of Reagents for Organic Synthesis has been designed and developed by chemists for chemists It makes it as easy as possible for users to find the most suitable reagents for performing particular reactions Reagents are arranged in A to Z format while each reagent entry is presented in a uniform style so that the user is provided with a recognizable format and structure New in the second edition of Encyclopedia of Reagents for Organic Synthesis Over 1 000 new reagents Over 620 updated reagents retaining the original text and references whilst adding additional up to date information New types of reagents and catalysts In addition to CAS numbers each article now also includes InChI and InChIKeys A standard citation style in the reference list for each reagent An author index

Catalyst Components for Coupling Reactions Gary A. Molander,2008-09-02 The long awaited Handbook for all synthetic chemists working on coupling reactions compiling all major catalyst components in use in the area Consists of a compilation of articles taken from the EROS database with the inclusion of about 20 newly commissioned catalysts pre catalysts ligands that have made an impact in this area of synthetic organic chemistry Includes catalyst systems used in Heck Kumada Tamao Corriu Suzuki Miyaura Hiyama Hatanaka Negishi Migita Kosugi Stille Buchwald Hartwig and Tsuji Trost coupling reactions

Sulfur-Containing Reagents Leo A. Paquette,2013-05-30 There are a lot of books available about the chemistry and biology of sulfur However this is the first book with a compilation of all relevant Sulfur containing reagents Synthetic chemists most particularly in the medicinal and pharmaceutical chemists are often called upon to prepare compounds that contain Sulfur as a key structural feature In the past this seemed to be a domain for specialists today every synthetic chemist working in these area is expected to synthesize compounds containing sulfides sulfates sulfones etc This

book offers an important source of information for the selection and handling of the right reagents **Chiral Reagents for**

Asymmetric Synthesis Leo A. Paquette, 2003-08-01 Derived from the renowned Encyclopedia of Reagents for Organic Synthesis EROS the related editors have created a new handbook which focuses on chiral reagents used in asymmetric synthesis and is designed for the chemist at the bench This new handbook follows the same format as the Encyclopedia including an introduction and an alphabetical arrangement of the reagents As chiral reagents are the key for the successful asymmetric synthesis choosing the right reagents is essential in this handy reference the editors give details on how to prepare store and use the reagents as well as providing key reactions to demonstrate where reagents have been successfully used Comprehensive information on 226 reagents Covers 64 reagents which were not included in EROS All information in one easy to use volume at an affordable price All reagents included will be added to e EROS please visit the site where you can gain access to over 50 000 reactions and 3 800 of the most frequently consulted reagents Visit www.interscience.wiley.com/eros

Acidic and Basic Reagents Hans J. Reich, James H. Rigby, 1999-07-09 Recognising the critical need for bringing a handy reference work that deals not only with the most popular reagents in synthesis to the laboratory of practising organic chemists the editors of the acclaimed Encyclopedia of Reagents for Organic Synthesis EROS have selected the most important and useful reagents employed in contemporary organic synthesis This book presents articles on the most fundamental and versatile reagents for effecting organic transformations that were originally included in EROS In selecting candidate entries for inclusion in this particular collection the editors adopted a broad set of criteria for defining what exactly constitutes an acidic or basic reagent Each article contains all of the information found in EROS as well as expanded related reagents listings Additional new listings of recently published review articles and monographs are included as well as relevant Organic Syntheses procedures that deal with either the preparations or reactions of the featured reagents This thorough and comprehensive handbook will have widespread appeal **Handbook of Reagents for Organic Synthesis:**

Oxidizing and reducing agents, 1999 **Chiral Reagents for Asymmetric Synthesis** Leo A. Paquette, 2003-08-01 Derived from the renowned Encyclopedia of Reagents for Organic Synthesis EROS the related editors have created a new handbook which focuses on chiral reagents used in asymmetric synthesis and is designed for the chemist at the bench This new handbook follows the same format as the Encyclopedia including an introduction and an alphabetical arrangement of the reagents As chiral reagents are the key for the successful asymmetric synthesis choosing the right reagents is essential in this handy reference the editors give details on how to prepare store and use the reagents as well as providing key reactions to demonstrate where reagents have been successfully used Comprehensive information on 226 reagents Covers 64 reagents which were not included in EROS All information in one easy to use volume at an affordable price All reagents included will be added to e EROS please visit the site where you can gain access to over 50 000 reactions and 3 800 of the most frequently consulted reagents Visit www.interscience.wiley.com/eros *Handbook of Reagents for Organic Synthesis: Reagents for*

high-throughput solid-phase and solution-phase organic synthesis, 1999 *Handbook of Reagents for Organic Synthesis: Reagents, auxiliaries, and catalysts for C-C bond formation*, 1999 **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

This book delves into Handbook Of Reagents For Organic Synthesis. Handbook Of Reagents For Organic Synthesis is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Handbook Of Reagents For Organic Synthesis, encompassing both the fundamentals and more intricate discussions.

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 6. In chapter 5, the author will draw a conclusion about Handbook Of Reagents For Organic Synthesis. This chapter will summarize the key points that have been discussed throughout the book.
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