

# Organic Reagents List

Organic Chemistry  
 Dictionary of Organic Compounds  
 Name Reactions and Reagents in Organic Synthesis  
 Advanced Practical Organic Chemistry, Second Edition  
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 Organic Syntheses Based on Name Reactions and Unnamed Reactions  
 Purification of Laboratory Chemicals  
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 Introduction to Strategies for Organic Synthesis  
 Organic Chemist's Desk Reference

*Organic Reagents List*

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## MORENO RICH

**Organic Chemistry** John Wiley & Sons  
 This Second Edition is the premier name resource in the field. It provides a handy resource for navigating the web of named reactions and reagents. Reactions and reagents are listed alphabetically, followed by relevant mechanisms, experimental data (including yields where available), and references to the primary literature. The text also includes three indices based on reagents and reactions, starting materials, and desired products. Organic chemistry professors, graduate students, and undergraduates, as well as chemists working in industrial, government, and other laboratories, will all find this book to be an invaluable reference.  
[Dictionary of Organic Compounds](#) CRC

Press  
 K.C. Nicolaou - Winner of the Nemitsas Prize 2014 in Chemistry Adopting his didactically skillful approach, K.C. Nicolaou compiles in this textbook the important synthetic methods that lead to a complex molecule with valuable properties. He explains all the key steps of the synthetic pathway, highlighting the major developments in blue-boxed sections and contrasting these to other synthetic methods. A wonderful tool for learning and teaching and a must-have for all future and present organic and biochemists.  
[Name Reactions and Reagents in Organic Synthesis](#) Alpha Science Int'l Ltd.  
 The two-part, fifth edition of *Advanced Organic Chemistry* has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational

chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.  
*Advanced Practical Organic Chemistry, Second Edition* Wiley-Interscience  
 Organic synthesis with lanthanides has experienced enormous growth in the last ten years. Numerous synthetic reactions have been explored by the use of lanthanide reagents, and some of these have become indispensable in modern organic synthesis. This book describes the remarkable scope and potential of these reagents, addressing this rapidly growing area from a practical point-of-view. The

author has summarized synthetically useful and novel organic transformations, emphasizing the characteristic properties of lanthanide reagents. These transformations are concisely and skillfully presented in many schemes and tables, with actual illustrative preparations. The coverage includes the use of lanthanide metals, the powerful divalent reagents such as samarium (II) iodide, the key trivalent reagents and their particular role as catalysts in selective reductions and cycloadditions, and the tetravalent lanthanides as oxidants. Describes the remarkable scope and potential of lanthanide reagents from a practical point-of-view Presents actual experimental procedures Provides a concise presentation of useful and novel organic transformations in table format

### **Essential Reagents for Organic Synthesis** Elsevier

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.

[Organometallics in Synthesis](#) John Wiley & Sons

Since the publication of Organic Syntheses Based on Name Reactions and Unnamed Reactions, as Volume 11 in the Tetrahedron Organic Chemistry series, there has been a proliferation of newly discovered Name Reactions in the field of organic chemistry. Hence, this, the second edition of this title has focused on the ongoing development in this area of research. The revised title, Organic Syntheses Based on Name Reactions, reflects the notion whereby many new reagents and reactions are now being referred to by their names. The inclusion of over 155 new stereoselective and regioselective reagents or reactions including asymmetric syntheses, brings the total to over 540. Features that will be invaluable to the reader include over 3000

references, a names index, reagent index, reaction index and a functional group transformation index. The latter of these indexes will allow the reader to search for conversions of one functional group to another and has proved a much utilized tool for the synthetic chemist, searching for pathways to perform synthetic procedures.

### **Practical Synthetic Organic Chemistry** John Wiley & Sons

With its coverage of 701 organic name reactions and reagents, this three-volume set is the largest, most up-to-date major reference work of its kind. It offers students and professional chemists a valuable resource for conducting experiments and performing a broad range of applications, from pharmaceuticals to plastics to pesticides. Each reaction listing is clearly organized into uniform sections that allow readers to quickly gather the information they need to conduct their own experimental procedures Comprehensive Organic Name Reactions and Reagents offers several features that help readers gather information quickly and conduct their experiments successfully: Chemical abbreviations list the abbreviation, the chemical's full name, its structure, and page references Schematic reaction index offers a quick overview of each reaction Reaction summaries provide basic information about each name reaction Reaction type summaries categorize and organize all related name reactions according to the type of transformation (e.g., oxidation, reduction, synthesis of alkenes, etc.)

### **Mechanochemical Organic Synthesis** CRC Press

The last decade has seen a huge interest in green organic chemistry, particularly as chemical educators look to "green" their undergraduate curricula. Detailing published laboratory experiments and proven case studies, this book discusses concrete examples of green organic chemistry teaching approaches from both lecture/seminar and practical perspe

**Mcat** Royal Society of Chemistry Launched in 1995 as a companion to the Dictionary of Organic Compounds, the Organic Chemist's Desk Reference has been essential reading for laboratory chemists who need a succinct guide to the 'nuts and bolts' of organic chemistry — the literature, nomenclature, stereochemistry, spectroscopy, hazard information, and laboratory data. This third edition reflects changes in the dissemination of chemical information, revisions to chemical nomenclature, and the adoption of new techniques in NMR spectroscopy, which

have taken place since publication of the last edition in 2011. Organic chemistry embraces many other disciplines — from material sciences to molecular biology — whose practitioners will benefit from the comprehensive but concise information brought together in this book. Extensively revised and updated, this new edition contains the very latest data that chemists need access to for experimentation and research.

### **Organic Syntheses Based on Name Reactions** CRC Press

A hands-on guide to assist in the planning and execution of synthetic reactions in the laboratory Despite the maturity of organic chemistry, it can still be very challenging to identify optimal methods for synthetic transformations that perform as well in real-world manufacturing processes as they do in the laboratory. This detailed and accessible guide attempts to address this vexing issue and deliver proven methodologies practicing synthetic chemists will find valuable for identifying reaction conditions that work reliably over the broadest possible range of substrates. Practical Synthetic Organic Chemistry: Provides a practical guide to strategically planning and executing chemical syntheses for the bench chemist in industry Discusses information that is not common knowledge beyond the boundaries of process chemistry groups, such as the synthetic routes of selected contemporary pharmaceutical drugs and practical solvents, as well as green chemistry concepts Highlights key reactions, including substitutions, additions, eliminations, rearrangements, oxidations, and reductions Addresses basic principles, mechanisms, advantages and disadvantages of the methodology, and techniques for achieving laboratory success Incorporating such an extraordinary wealth of information on organic chemistry and its related fields into one complete volume distinguishes Practical Synthetic Organic Chemistry as an incomparable desktop reference for professionals and an invaluable study aid for students.

[Green Organic Chemistry in Lecture and Laboratory](#) John Wiley & Sons

The stepping-stone text for students with a preliminary knowledge of organic chemistry looking to move into organic synthesis research and graduate-level coursework Organic synthesis is an advanced but important field of organic chemistry, however resources for advanced undergraduates and graduate students moving from introductory organic chemistry courses to organic synthesis research are scarce. Introduction to

Strategies for Organic Synthesis is designed to fill this void, teaching practical skills for making logical retrosynthetic disconnections, while reviewing basic organic transformations, reactions, and reactivities. Divided into seven parts that include sections on Retrosynthesis and Protective Groups; Overview of Organic Transformations; Synthesis of Monofunctional Target Molecules; Synthesis of Target Molecules with Two Functional Groups; Synthesis of Aromatic Target Molecules; Synthesis of Compounds Containing Rings; and Predicting and Controlling Stereochemistry, the book covers everything students need to successfully perform retrosynthetic analyses of target molecule synthesis. Starting with a review of functional group transformations, reagents, and reaction mechanisms, the book demonstrates how to plan a synthesis, explaining functional group analysis and strategic disconnections. Incorporating a review of the organic reactions covered, it also demonstrates each reaction from a synthetic chemist's point of view, to provide students with a clearer understanding of how retrosynthetic disconnections are made. Including detailed solutions to over 300 problems, worked-through examples and end-of-chapter comprehension problems, Introduction to Strategies for Organic Synthesis serves as a stepping stone for students with an introductory knowledge of organic chemistry looking to progress to more advanced synthetic concepts and methodologies.

*Classics in Total Synthesis III* Princeton Review

Rev. ed. of: Organic syntheses based on name reactions and unnamed reactions. 1st ed. 1994.

Organic Syntheses Based on Name Reactions and Unnamed Reactions Elsevier

The first edition of this book achieved considerable success due to its ease of use and practical approach, and to the clear writing style of the authors. The preparation of organic compounds is still central to many disciplines, from the most applied to the highly academic and, more than ever is not limited to chemists. With an emphasis on the most up-to-date techniques commonly used in organic syntheses, this book draws on the extensive experience of the authors and their association with some of the world's leading laboratories of synthetic organic chemistry. In this new edition, all the figures have been re-drawn to bring them up to the highest possible standard, and the text has been revised to bring it up to

date. Written primarily for postgraduate, advanced undergraduate and industrial organic chemists, particularly those involved in pharmaceutical, agrochemical and other areas of fine chemical research, the book is also a source of reference for biochemists, biologists, genetic engineers, material scientists and polymer researchers.

*Purification of Laboratory Chemicals* CRC Press

Name Reactions and Reagents in Organic Synthesis John Wiley & Sons

*Handbook of Reagents for Organic Synthesis* Elsevier

Oxidation plays a crucial role in organic synthesis. This volume presents the array of oxidizing agents and their applications in oxidations. The book describes in great detail a number of reagents of importance. The text includes oxidation of specific types of organic compounds including hydrocarbons, alcohols, phenols, ethers, carbonyl compounds, carboxylic acids, amides, hydrazides, nitro compounds, nitroso compounds, hydroxylamines, azo compounds, azides, hydrazo compounds, amines, phosphorus, arsenic and sulphur compounds. It also covers enzymatic or microbial oxidations as well as oxidations under benign conditions.

*Advanced Organic Synthesis* Elsevier

This book, written explicitly for graduate and postgraduate students of chemistry, provides an extensive coverage of various organic reaction and rearrangements with emphasis on their application in synthesis. A summary of oxidation and reduction of organic compounds is given in tabular form (correlation tables) for the convenience of students. The most commonly encountered reaction intermediates are dealt with. Applications of organic reagents illustrated with examples and problems at the end of each chapter will enable students to evaluate their understanding of the topic.

Oxidation of Alcohols to Aldehydes and Ketones Academic Press

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.

**Organozinc Reagents in Organic Synthesis** Elsevier

This volume dictionary brings together accurate chemical, structural and bibliographic data on the most commonly used reagents in the various branches of analytical chemistry. Covering both organic and inorganic compounds, the "Dictionary of Analytical Reagents" contains over 5,000 reagents significant in analytical chemistry, grouped into 5,000 entries. All the reagents included in the dictionary have been synthesized, characterized by or are of proven use to analytical chemists. Compiled by a distinguished board of leading figures in the world of analytical chemistry, each an expert in their own specialist field, the "Dictionary of Analytical Reagents" is a companion volume to the renowned "Dictionary of Organic Compounds" and follows a similar format. The dictionary is arranged in such a way as to facilitate browsing, with entries ordered alphabetically by entry name (often its trivial name). Clearly laid out in an easy-to-follow manner, each entry contains a wealth of data invaluable to the analytical chemist including synonyms, analytical applications, extensive and up-to-date hazard/toxicity data, solubility, dissociation constant and selected references labelled to indicate their content (e.g. analytical application, spectral data, synthesis). High quality structure diagrams are included to assist the analytical chemist in identifying the reagent needed and are drawn to standard orientations. Coverage extends to metal extractants, spectrophotometric reagents, indicators, fluorescence labelling reagents, resolving agents, nmr shift reagents and reference standards, buffers, gc and ms derivatisation reagents, amperometric reagents, titrimetric and gravimetric reagents, biological stains and dyes. Compounds are comprehensively indexed by Name, Molecular Formula, CAS Registry Number and Type of Compound. The unique Type of Compound Index is particularly valuable as compounds are indexed by use (eg NMR shift reagent), by analyte (eg nickel) and by compound group (eg formazan, crown ether), making

the data accessible by a variety of criteria. Thus, chemists can use the dictionary to find information on how to analyze for a particular substance, how a particular compound may be used as an analytical reagent or what other reagents are available for a specific analytical use. Having located all appropriate reagents via the index, the user can then browse through the entries to obtain specific data, all fully referenced in the selective bibliography. Analytical chemists - be they in the manufacturing or pharmaceutical industry, working in hospital laboratories as clinical chemists or pollution analysts monitoring heavy metal residues in waste water - constantly need to make decisions about which reagent to choose for a particular application. This dictionary fulfils that need by being the most comprehensive, reliable and up-to-date compilation of reagents available. This book should be of interest to analytical chemists in academic and industrial establishments, forensic scientists, chromatographers, biochemists, standards institutions, companies selling laboratory chemicals, and water authorities.

*Organic Syntheses Based on Name Reactions* CRC Press

*Organic Synthesis, Fourth Edition*, provides a reaction-based approach to this important branch of organic chemistry. Updated and accessible, this eagerly-awaited revision offers a comprehensive foundation for graduate students coming from disparate backgrounds and knowledge levels, to provide them with critical working knowledge of basic reactions, stereochemistry and conformational principles. This reliable resource uniquely incorporates molecular modeling content, problems, and visualizations, and includes reaction examples and homework problems drawn from the latest in the current literature. In the Fourth Edition, the organization of the book has been improved to better serve

students and professors and accommodate important updates in the field. The first chapter reviews basic retrosynthesis, conformations and stereochemistry. The next three chapters provide an introduction to and a review of functional group exchange reactions; these are followed by chapters reviewing protecting groups, oxidation and reduction reactions and reagents, hydroboration, selectivity in reactions. A separate chapter discusses strategies of organic synthesis, and the book then delves deeper in teaching the reactions required to actually complete a synthesis. Carbon-carbon bond formation reactions using both nucleophilic carbon reactions are presented, and then electrophilic carbon reactions, followed by pericyclic reactions and radical and carbene reactions. The important organometallic reactions have been consolidated into a single chapter. Finally, the chapter on combinatorial chemistry has been removed from the strategies chapter and placed in a separate chapter, along with valuable and forward-looking content on green organic chemistry, process chemistry and continuous flow chemistry. Throughout the text, *Organic Synthesis, Fourth Edition* utilizes Spartan-generated molecular models, class tested content, and useful pedagogical features to aid student study and retention, including Chapter Review Questions, and Homework Problems. A full Solutions Manual is also available online for qualified instructors, to support teaching. - Winner, 2018 Textbook Excellence Award (Texty) from the Textbook and Academic Authors Association - Fully revised and updated throughout, and organized into 19 chapters for a more cogent and versatile presentation of concepts - Includes reaction examples taken from literature research reported between 2010-2015 - Features new full-color art and new

chapter content on process chemistry and green organic chemistry - Offers valuable study and teaching tools, including Chapter Review Questions and Homework Problems for students; Solutions Manual for qualified course instructors

**Organic Chemistry** CRC Press

Synthetically useful organic reactions or reagents are often referred to by the name of the discoverer(s) or developer(s). Older name reactions are described in text books, but more recently developed synthetically useful reactions that may have been associated occasionally with a name are not always well known. For neither of the above are experimental procedures or references easy to find. In this monograph approximately 500 name reactions are included, of which over 200 represent newer name reactions and modern reagents. Each of these reactions are extremely useful for the contemporary organic chemistry researcher in industry or academic institutions. This book provides the information in an easily accessible form. In addition to seminal references and reviews, one or more examples for each name reaction are provided and a complete typical experimental procedure is included, to enable the student or researcher to immediately evaluate reaction conditions. Besides an alphabetical listing of reactions and reagents, cross references permit the organic practitioner to find those name reactions or reagents that enable specific transformations, such as, conversion of amines to nitriles, stereoselective reduction, fluoroalkylation, phenol alkynylation, asymmetric syntheses, allylic alkylation, nucleoside synthesis, cyclopentanation, hydrozirconation, to name a few. Emphasis has been placed on stereoselective and regioselective transformations as well as on enantioselective processes. The listing of reactions and reagents is supported by four indexes.

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