

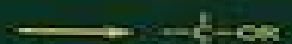
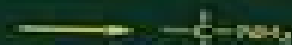
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A Guide to Functional Group Preparations

Edited by
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devoted to carbon attached by single bonds to two heteroatoms the reader will find several chapters reviewing the synthesis of familiar functional groups notably acetals dithioacetals amins and the various mixed species The derivatives with tetracoordinated saturated carbon are described in Part I and those eg ketene acetals of tricoordinated carbon in Part II However the treatment is comprehensive and the authors have uncovered much fascinating chemistry concerning less familiar groups including some like geminal halohydrins halo amines and diols that are often unstable Again a surprisingly large number of compounds having two metals attached to the same carbon have been located in the literature and the abundance of phosphorus derivatives eg those with geminal nitrogen functions reflects their importance as biologically active species and as intermediates in synthesis Part III consists of a single short chapter describing dicoordinate carbon carbenes and examples of carbon cations anions and radicals Here the treatment is deliberately selective since throughout the work as a whole emphasis is placed on the synthesis of isolable species rather than the transient intermediates of organic reactions

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Chemistry Reinhard Bruckner, 2001-08-03 A best selling mechanistic organic chemistry text in Germany this text's translation into English fills a long existing need for a modern thorough and accessible treatment of reaction mechanisms for students of organic chemistry at the advanced undergraduate and graduate level Knowledge of reaction mechanisms is essential to all applied areas of organic chemistry this text fulfills that need by presenting the right material at the right level

Bulletin of the Chemical Society of Japan Nihon Kagakkai, 2004 Chemical Information for Chemists Judith N Currano, Dana Roth, 2014-03-17 While it is not difficult to find data in many cases what advice can you get on the quality of the data retrieved *Chemical Information for Chemists* could help with this problem and more This book is a chemical information book aimed specifically at practicing chemists Written and edited by experts in the field it is ideal for chemists who lack a chemical information professional able to teach basic and intermediate techniques in retrieving and evaluating information using the unique entry points of the chemical literature including structure formula substructure and sequence Aimed at students on undergraduate and graduate courses it could also be a useful guide to new information specialists who are facing the challenging diversity of chemical literature **Organic Chemist's Desk Reference** Caroline

Cooper, 2010-07-23 CHOICE Award Winner Since the first publication in 1995 the *Organic Chemist's Desk Reference* has been essential reading for laboratory chemists who need a concise guide to the essentials of organic chemistry the literature nomenclature stereochemistry spectroscopy hazard information and laboratory data The past fifteen years have witnessed immense growth in the field of chemistry and new discoveries have continued to shape its progress In addition the distinction

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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

March's Advanced Organic Chemistry Michael B. Smith, 2025-07-23 Leading reference on the theories of organic chemistry now updated to reflect the most recent literature from 2018 to 2023 Building on the success of the 8th Edition as winner of the Textbook Academic Authors Association 2021 McGuffey Longevity Award the revised and updated 9th Edition of March's Advanced Organic Chemistry explains the theories of organic chemistry covers new advances in areas of organic chemistry published between 2018 and 2023 and guides readers to plan and execute multi step synthetic reactions Detailed examples and descriptions of all reactions are included throughout the text As in previous editions the goal of this edition is to give equal weight to three fundamental aspects of the study of organic chemistry reactions mechanisms and structure Specific but specialized areas of organic chemistry such as terpenes polymerization and steroids have been incorporated into primary sections rather than segregated into their own sections The first nine chapters cover general organic chemistry with theoretical principles The next 10 chapters address reactions and mechanistic discussion Appendix A focuses on literature references and resources More than 4,400 references are included throughout the text March's Advanced Organic Chemistry provides information on Localized and delocalized chemical bonding and bonding weaker than covalent Microwave chemistry use of ultrasound mechanochemistry and reactions done under flow conditions Acids and bases irradiation processes stereochemistry structure of intermediates and ordinary and photochemical reactions

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