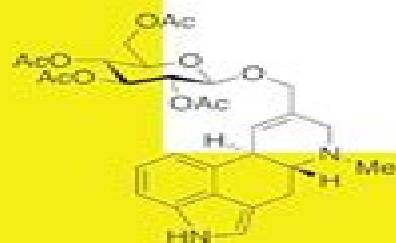


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6th Edition

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Protective Groups In Organic Synthesis

Peter G. M. Wuts



Protective Groups In Organic Synthesis:

Greene's Protective Groups in Organic Synthesis Peter G. M. Wuts, Theodora W. Greene, 2012-12-20 The Fourth Edition of Greene's Protective Groups in Organic Synthesis continues to be an indispensable reference for controlling the reactivity of the most common functional groups during a synthetic sequence This new edition incorporates the significant developments in the field since publication of the third edition in 1998 including New protective groups such as the fluororous family and the uniquely removable 2-methoxybenzenesulfonyl group for the protection of amines New techniques for the formation and cleavage of existing protective groups with examples to illustrate each new technique Expanded coverage of the unexpected side reactions that occur with protective groups New chart covering the selective deprotection of silyl ethers 3100 new references from the professional literature The content is organized around the functional group to be protected and ranges from the simplest to the most complex and highly specialized protective groups

Protective Groups in Organic Synthesis Theodora W. Greene, Peter G. M. Wuts, 1991-05-16 Contains 206 new groups and 1500 new references representing full coverage of the literature from 1980 to 1989 In addition two new sections on the protection for indoles imidazoles and pyrroles and protection for the amide NH are included Most of the original material from the first edition has been retained including the indispensable Reactivity Charts

Protective Groups in Organic Chemistry J. McOmie, 2012-12-06 During the past decade there has been a great increase in the use of protective groups especially in the synthesis of large and complex organic molecules Perhaps the greatest activity has been in the peptide field where such triumphs as the total synthesis of insulin and of bovine ribonuclease molecular weight 13700 have been achieved Correspondingly more protective groups have been devised for the protection of amino and imino groups than for any other functional group There are many reviews and books on the synthesis of peptides but there has been no general survey of protective groups since my own review in 1963 At that time the five main methods for the removal of protective groups involved acid or base hydrolysis reduction oxidation or thermal elimination reactions Recent advances include the use of photo sensitive and metal ion sensitive protective groups and the attachment of functional groups to reactive polymers as a method of protection during the solid phase synthesis of peptides and polynucleotides Another interesting development is the design and use of protective groups with a built in safety catch which can be released by a specific chemical reaction so that an otherwise stable bond is made labile at the appropriate moment thereby allowing the protective group to be removed under very mild conditions My own interest in protective groups dates from 1944 when as a student I gave two lectures on the subject and produced an 11 page review including 70 references

Protecting Groups in Organic Synthesis James Ralph Hanson, 1999-01-01

Protective Groups in Organic Synthesis Theodora W. Greene, 2007

Greene's Protective Groups in Organic Synthesis Peter G. M. Wuts, Theodora Whatmough Greene, 2007

Greene's Protective Groups in Organic Synthesis Peter G. M. Wuts, 2014-08-08 An indispensable reference for any practicing synthetic organic or medicinal

chemist this book continues the tradition of Greene's as comprehensive in the overall scope of coverage providing the most relevant and useful examples to illustrate each methodology. Presents valuable material on the application of protective groups in organic chemistry that is not easily found by casual searching. Helps chemists to plan, investigate and carry out organic syntheses in an efficient manner. Adds over 2800 new references to update since the publication of the last edition. Reviews of the prior edition. An essential bible for the library or personal bookshelf of chemists performing complex synthesis. CHOICE May 2007: the most up-to-date compilation available should be an integral part of all institutional libraries; it is also highly recommended that individuals maintain their own copy. Journal of Medicinal Chemistry March 8 2007: continues to be a comprehensive guide to the techniques for the formation and cleavage of protective groups. Journal of the American Chemical Society January 31 2007: **Protecting Groups** Philip J. Kocienski, 2005. The didactic presentation of the material makes this book an essential bench-top tool not only for specialists in organic chemistry but also for students and all those involved in the preparation of organic molecules. Key Features: A critical survey of the most used protecting groups as used by organic chemists. Organization based on functional groups: hydroxyl, diol, carbonyl, carboxyl, amine. Special emphasis placed on deprotection conditions applied to complex structures where selectivity is a prime issue. Transformations accompanied by key experimental details. Examples from the recent literature span a wide domain of organic synthesis. Over 500 schemes aid visual retrieval. End of chapter list reviews which amplify topics covered. *Greene's Protective Groups in Organic Synthesis*, 2009. The Fourth Edition of Greene's *Protective Groups in Organic Synthesis* continues to be an indispensable reference for controlling the reactivity of the most common functional groups during a synthetic sequence. This new edition incorporates the significant developments in the field since publication of the third edition in 1998, including new protective groups such as the fluorous family and the uniquely removable 2-methoxybenzenesulfonyl group for the protection of amines. New techniques for the formation and cleavage of existing Protecting Groups in Organic Synthesis James Ralph Hanson, 1999. Protective Groups in Organic Chemistry John F. W. MacOmie, 1976. Protecting Groups in Organic Synthesis James R. Hanson, 1999. *Greene's Protective Groups in Organic Synthesis, 2 Volume Set* Peter G. M. Wuts, 2025-05-13. Integral, reliable and comprehensive guidance for chemists performing the complex syntheses required for the formation and cleavage of protective groups. Organic synthesis is the preparation and creation of organic compounds for use in natural products, pharmaceuticals and other molecules. The synthesis of molecules having multiple functional groups often requires the use of protective groups to achieve site selectivity in a chemical reaction within a molecule bearing multiple sites of reactivity. Protective groups are installed temporarily to prevent unwanted reactions at a particular site while transforming a different functional group. Once they have served their function, they are removed to expose the original group. Without a thorough understanding of the methods required to install and remove them, the design of a synthesis of a molecule having multiple functional groups in most cases is effectively impossible. *Greene's Protective Groups in Organic Synthesis* 6th Edition is the

definitive compilation of protective groups their classification and their application in a wide array of situations With a long tradition of comprehensive coverage organized on the basis of the functional group in need of protection and subsequent deprotection it is an essential reference and resource for all chemists involved in organic syntheses Now fully updated to reflect the current state of the art it remains an indispensable resource for generating life changing organic products This edition contains a new chapter on how protective groups effect reactivity and selectivity in carbohydrate chemistry Readers of the sixth edition of Greene s Protective Groups in Organic Synthesis will also find Methodology for planning selectivity in organic syntheses Detailed discussion of all major functional groups including ethers amides and phenols A discussion of the impact of protective groups on reactivity in carbohydrates Greene s Protective Groups in Organic Synthesis is ideal for synthetic organic chemists or medicinal chemists in academia industry pharmaceuticals food agrochemicals and biotech or government agencies

Protective Groups in Organic Synthesis Theodora W. Greene,1981-05-14 Provides comprehensive information on the most useful protective groups for the hydroxyl amino carboxyl carbonyl and sulfhydryl groups Discusses the chemistry of the classes of protective groups as well as that of the individual protective groups within the class using structures equations and references Reactivity Charts for each class of protective group serve as an aid in their appropriate choice and provide estimates of their relative reactivities toward 108 prototype reagents

The Organic Chemistry of Sugars Daniel E. Levy,Peter Fügedi,2005-09-21 Intrigued as much by its complex nature as by its outsider status in traditional organic chemistry the editors of The Organic Chemistry of Sugars compile a groundbreaking resource in carbohydrate chemistry that illustrates the ease at which sugars can be manipulated in a variety of organic reactions Each chapter contains numerous examples demonst

Protective groups in organic synthesis ,1986 Advanced Organic Chemistry Francis A. Carey,Richard J. Sundberg,2007-09-06 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 B describes the most general and useful synthetic reactions organized on the basis of reaction type It can stand alone together with Part A Structure and Mechanisms the two volumes provide a comprehensive foundation for the study in organic chemistry Companion websites provide digital models for students and exercise solutions for instructors

Protecting-Group-Free Organic Synthesis Rodney A. Fernandes,2018-08-20 Presents a comprehensive account of established protecting group free synthetic routes to molecules of medium to high complexity This book supports synthetic chemists in the design of strategies which avoid or minimize the use of protecting groups so as to come closer to achieving an ideal synthesis and back the global need of practicing green chemistry The only resource of its kind to focus entirely on protecting group free synthesis it is edited by a leading practitioner in the field and features enlightening contributions by top experts and researchers from across the globe The introductory chapter includes a concise review of historical developments and discusses the concepts need for and future

prospects of protecting group free synthesis Following this the book presents information on protecting group free synthesis of complex natural products and analogues heterocycles drugs and related pharmaceuticals Later chapters discuss practicing protecting group free synthesis using carbohydrates and of glycosyl derivatives glycol polymers and glyco conjugates The book concludes with a chapter on latent functionality as a tactic toward formal protecting group free synthesis A comprehensive account of established protecting group free PGF synthetic routes to molecules of medium to high complexity Benefits total synthesis methodology development and drug synthesis researchers Supports synthetic chemists in the design of strategies which avoid or minimize the use of protecting groups so as to come closer to achieving an ideal synthesis and support the global need of practicing green chemistry Covers a topic that is gaining importance because it renders syntheses more economical Protecting Group Free Organic Synthesis Improving Economy and Efficiency is an important book for academic researchers in synthetic organic chemistry green chemistry medicinal and pharmaceutical chemistry biochemistry and drug discovery

Organic Synthesis Michael Smith, 2011-07-12 The first two chapters provide an introduction to functional groups these are followed by chapters reviewing basic organic transformations e g oxidation reduction The book then looks at carbon carbon bond formation reactions and ways to disconnect a bigger molecule into simpler building blocks Most chapters include an extensive list of questions to test the reader's understanding There is also a new chapter outlining full retrosynthetic analyses of complex molecules which highlights common problems made by scientists

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