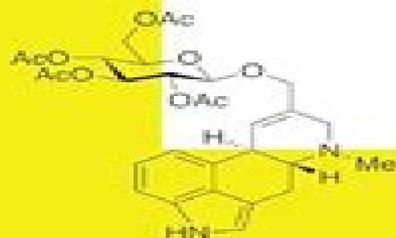


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# Protective Groups In Organic Synthesis

**J. McOmie**



## Protective Groups In Organic Synthesis:

**Protective Groups in Organic Synthesis** Theodora W. Greene, Peter G. M. Wuts, 1991-05-16 Contains 206 new groups and 1 500 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 13 700 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

**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 fluorosulfonyl 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 3 100 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

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

**Protective Groups in Organic Synthesis** Theodora W. Greene, Peter G. M. Wuts, 1999-04-23 From the reviews of the previous editions For completeness the authors include protective groups and techniques for formation and cleavage that are seldom used as well

as those that are more common Anyone who does organic synthesis must have convenient access to this book Journal of the American Chemical Society Essential to the modern synthetic organic chemist should be in the libraries of all academic governmental and industrial organizations concerned with organic synthesis Polymer News Reflecting the latest advances in protective group methodology this Third Edition of the proven laboratory reference is expanded by more than 50% providing readers with a comprehensive compendium of 1 050 of the most useful protective groups as well as 5 350 references to original publications Protective groups are organized by six major organic functional groups hydroxyl amino carboxyl carbonyl sulfhydryl and phosphate groups the last new to this edition Also added in this edition are protection of the alkyne CH expanded coverage of protection of all groups and many new enzymatic methods of protection and deprotection Each chapter briefly describes the classes of available protective groups followed by an in depth look at the chemistry of individual protective groups their properties and the best methods of formation and cleavage Ten reactivity charts with more than 28 000 entries summarize the relative reactivities of 270 commonly used protective groups with 108 reagents This book will be an indispensable reference for synthetic chemists and students *Protective Groups in Organic Synthesis* Theodora W. Greene, 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 **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 Chemistry John F. W. MacOmie,1976 **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 Protecting Groups in Organic Synthesis James R. Hanson,1999 **Protective groups in organic synthesis** ,1986 CRC Handbook of Organic Photochemistry and Photobiology, Third Edition - Two Volume Set Axel Griesbeck,Michael Oelgemöller,Francesco Ghetti,2019-04-05 The only combined organic photochemistry and photobiology handbookAs spectroscopic synthetic and biological tools become more and more sophisticated photochemistry and photobiology are merging making interdisciplinary research essential Following in the footsteps of its bestselling predecessors the CRC Handbook of Organic Photochemistry and Pho *Greene's Protective Groups in Organic Synthese* ,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 Protective groups in organic synthesis , **Handbook of Reagents for Organic Synthesis, Acidic and Basic Reagents** Hans J. Reich,James H. Rigby,1999-07-09 Handbook of Reagents for Organic Synthesis Acidic and Basic Reagents Hans J Reich University of Wisconsin at Madison USA James H Rigby Wayne State University Detroit USA Recognising the critical need for bringing a handy reference work that deals with the most popular reagents in synthesis to the laboratory of

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**Advanced Organic Chemistry: Reactions and synthesis** Francis A. Carey, 1990

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