

Greene's Protective Groups in Organic Synthesis, 6th Edition

Editor

Peter G. M. Wuts

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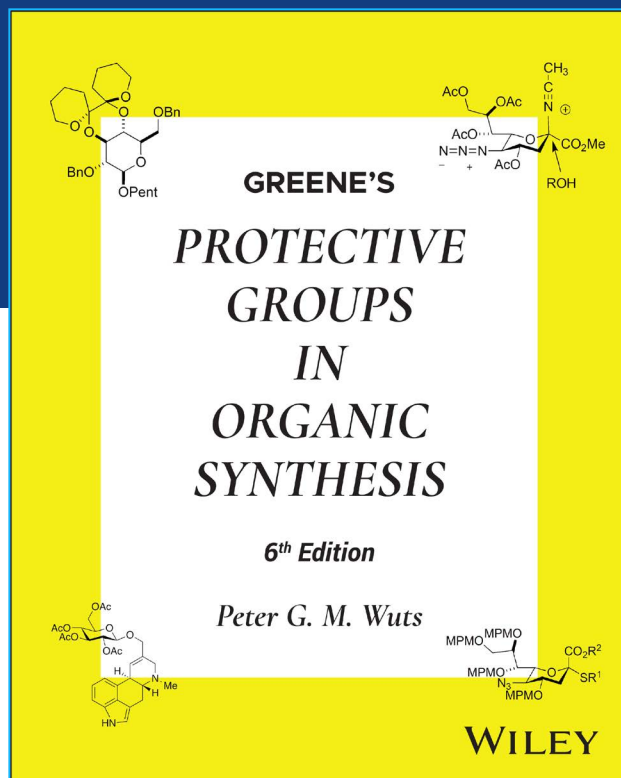
Integral, reliable, and comprehensive guidance for chemists performing the complex syntheses required for the formation and cleavage of protective groups

A comprehensive and trusted resource for chemists performing the complex syntheses necessary for the formation and cleavage of protective groups.

Greene's Protective Groups in Organic Synthesis, 6th

Edition is the definitive reference for chemists navigating

the intricacies of organic synthesis. The 6th edition continues this tradition, offering the most up-to-date guidance on protective groups, their classification, and their application in a wide array of situations. With meticulous coverage organized based on the functional group in need of protection and subsequent deprotection, it is an essential reference for all chemists involved in organic syntheses. An indispensable resource for generating life-changing organic products, this updated edition also 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.

The role of protective groups in organic synthesis

Organic synthesis involves creating and preparing organic compounds for use in natural products, pharmaceuticals, and other molecules. When a molecule contains multiple functional groups, achieving site selectivity in reactions becomes critical. "Protective groups" are often used in these cases to temporarily prevent unwanted reactions at a particular site while transforming to a different functional group.

Once a protective group have served its function, it is removed to expose the original functional group. A thorough understanding of the methods required to install and remove protective groups is essential for designing successful synthesis of molecules with multiple reactive sites. Without this understanding, the synthesis of complex molecules is effectively impossible.

Greene's Protective Groups in Organic Synthesis, 6th Edition offers chemists an invaluable resource for navigating the complexities of protective group strategies, supporting success in even the most challenging organic syntheses.

About the Author

Peter G. M. Wuts, PhD, is a renowned organic chemist, currently working as a chemistry consultant for both the biotech and the legal community. He continues a 50-year career in academia and the pharmaceutical industry.



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