



synthesized. The Houben-Weyl volumes contain 146 000 product-specific experimental procedures, 580 000 structures, and 700 000 references. The preparative significance of the methods for all classes of compounds is critically evaluated. The series includes data from as far back as the early 1800s to 2003. // The content of this e-book was originally published in 1966.

Houben-Weyl is the acclaimed reference series for preparative methods in organic chemistry, in which all methods are organized according to the class of compound or functional group to be synthesized. The Houben-Weyl volumes contain 146 000 product-specific experimental procedures, 580 000 structures, and 700 000 references. The preparative significance of the methods for all classes of compounds is critically evaluated. The series includes data from as far back as the early 1800s to 2003. // The content of this e-book was originally published in 1994.

Reactive Intermediate Chemistry presents a detailed and timely examination of key intermediates central to the mechanisms of numerous organic chemical transformations. Spectroscopy, kinetics, and computational studies are integrated in chapters dealing with the chemistry of carbocations, carbanions, radicals, radical ions, carbenes, nitrenes, arynes, nitrenium ions, diradicals, etc. Nanosecond, picosecond, and femtosecond kinetic realms are explored, and applications of current dynamics and electronic structure calculations are examined. Reactive Intermediate Chemistry provides a deeper understanding of contemporary physical organic chemistry, and will assist chemists in the design of new reactions for the efficient synthesis of pharmaceuticals, fine chemicals, and agricultural products. Among its features, this authoritative volume is: Edited and authored by world-renowned leaders in physical organic chemistry. Ideal for use as a primary or supplemental graduate textbook for courses in mechanistic organic chemistry or physical chemistry. Enhanced by supplemental reading lists and summary overviews in each chapter.

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Students see chemistry in action in this thorough but accessible informational text that is aligned to science core curriculum. It includes crosscutting concepts and covers carbon bonding, chains, and rings; alcohol and acids; other organic compounds, such as esters, aldehydes, ketones, ethers, amines, and halides; and polymers. Fact boxes about key terms, events, people, discoveries, and technologies, along with sidebars that give everyday examples of chemical applications help make the subject fun for readers. The volume also contains information about the life of German chemist Friedrich Wöhler, one of the fathers of organic chemistry.

Organic Chemistry W. W. Norton

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