

Hypervalent Iodine Compounds

Synthesis and Applications

Up-to-date overview of an important class of chemical reagents Hypervalent Iodine Compounds provides a comprehensive overview of the preparation, properties and synthetic applications of this important class of organic reagents. The book reviews the preparation and structure of all main classes of iodine(III), iodine(V) and iodine(VII) organic and inorganic derivatives, as well as synthetic applications including the development of numerous new hypervalent iodine oxidants, the development of enantioselective reactions involving chiral hypervalent iodine reagents and the discovery of catalytic applications of organoiodine compounds. Hypervalent Iodine Compounds includes information on: - The historical background and current areas of active research in hypervalent iodine chemistry - Classification and nomenclature of iodine compounds and hypervalent iodine bonding, structure and reactivity - Green chemistry aspects of hypervalent iodine chemistry, such as solvent-free reactions, reactions in water and reactions in ionic liquids - Practical applications of polyvalent iodine compounds, including biological activity and medical applications of iodonium salts in PET diagnostics - Recent achievements in catalytic reactions of hypervalent iodine Hypervalent Iodine Compounds is an essential reference for researchers and students in academia and industry working in organic and inorganic synthetic chemistry. It will also find a place on the bookshelves of inorganic, organic, physical, medicinal, pharmaceutical, green, and biological chemists.



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