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2.3 Synthesis and preparative use of 1-halogenoacetylenes; 2.3.1 Older review of the literature on halogenoacetylenes; 2.3.2 Synthesis of 1-halogenoacetylenes; 2.3.2.1 The preparation of the 1-Halogeno- and 1,2-Dihalogenoethynes; 2.3.2.2 More highly unsaturated halogenoacetylenes; 2.3.2.3 Derivatives of 1-halogenoacetylenes; 2.3.3 Novel preparative uses of 1-Halogeno- and 1,2-Dihalogenoacetylenes; 2.4 Experimental procedures; 2.4.1 Cyanoacetylene (1); 2.4.2 Dicyanoacetylene (2); 2.4.3 Dicyanodiacetylene (3)
2.4.4 Chloroacetylene (93) 2.4.5 Dichloroacetylene (100); 2.4.6 Diiodoacetylene (105); References; 3 Alkynyliodonium Salts: Electrophilic Acetylene Equivalents; 3.1 Introduction; 3.2 Preparation and properties; 3.2.1 Alkynyliodonium sulfonates; 3.2.2 Alkynyliodonium tetrafluoroborates; 3.2.3 Heterocyclic alkynyliodonium species; 3.2.4 Mechanism of formation; 3.2.5 Diynyliodonium and dialkynyliodonium triflates; 3.2.6 Bis-iodonium species; 3.2.7 Properties of alkynyliodonium salts; 3.3 Characterization and structure; 3.3.1 Spectroscopic properties; 3.3.2 X-ray and molecular structure
3.4 Reactions and uses of alkynyliodonium salts
3.4.1 Reaction with nucleophiles; 3.4.1.1 Carbon nucleophiles; 3.4.1.2 Nitrogen nucleophiles; 3.4.1.3 Oxygen nucleophiles; 3.4.1.4 Sulfur nucleophiles; 3.4.1.5 Phosphorus nucleophiles; 3.4.1.6 Halogen nucleophiles; 3.4.2 Reaction with organometallic species; 3.4.3 Cycloaddition reactions; 3.4.3.1 [2 + 4]-Diels-Alder cycloadditions; 3.4.3.2 1,3-Dipolar cycloadditions; 3.5 Conclusions; 3.6 Experimental procedures; 3.6.1 (Cyano{[(trifluoromethyl)sulfonyl]oxy}iodo)benzene, 7
3.6.2 General procedure for the preparation of -alkyl- and -phenylethynyl(phenyl)iodonium triflates, 10

Sommario/riassunto

This comprehensive handbook presents the full potential of modern acetylene chemistry, from organic synthesis through materials science to bioorganic chemistry. K. Houk, H. Hopf, P. Stang, K. M. Nicholas, N. Schore, M. Regitz, K. C. Nicolaou, R. Gleiter, L. Scott, R. Grubbs, H. Iwamura, J. Moore, and F. Diederich - internationally renowned authors introduce the reader, in a didactically skilful manner, to the state-of-the-art in alkyne chemistry. Emphasis is placed on presenting carefully selected and instructive examples as well as essential references to the original literature.
