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Nota di contenuto	Organic Chemistry of Explosives; Contents; Foreword; Preface; Abbreviations; Acknowledgements; Background; 1 Synthetic Routes to Aliphatic C-Nitro Functionality; 1.1 Introduction; 1.2 Aliphatic C-Nitro Compounds as Explosives; 1.3 Direct Nitration of Alkanes; 1.4 Addition of Nitric Acid, Nitrogen Oxides and Related Compounds to Unsaturated Bonds; 1.4.1 Nitric Acid and its Mixtures; 1.4.2 Nitrogen Dioxide; 1.4.3 Dinitrogen Pentoxide; 1.4.4 Nitrous Oxide and Dinitrogen Trioxide; 1.4.5 Other Nitrating Agents; 1.5 Halide Displacement; 1.5.1 Victor Meyer Reaction 1.5.2 Modified Victor Meyer Reaction1.5.3 Ter Meer Reaction; 1.5.4 Displacements Using Nitronate Salts as Nucleophiles; 1.6 Oxidation and Nitration of C-N Bonds; 1.6.1 Oxidation and Nitration of Oximes; 1.6.2 Oxidation of Amines; 1.6.3 Nitration of Nitronate Salts; 1.6.4 Oxidation of Pseudonitroles; 1.6.5 Oxidation of Isocyanates; 1.6.6 Oxidation of Nitrosoalkanes; 1.7 Kaplan-Shechter Reaction; 1.8 Nitration of Compounds Containing Acidic Hydrogen; 1.8.1 Alkaline Nitration; 1.8.2 Acidic Nitration; 1.9 Oxidative Dimerization; 1.10 Addition and Condensation Reactions 1.10.1 1,2-Addition Reactions1.10.2 1,4-Addition Reactions; 1.10.3

Mannich Reaction; 1.10.4 Henry Reaction; 1.11 Derivatives of Polynitroaliphatic Alcohols; 1.12 Miscellaneous; 1.12.1 1,1-Diamino-2,2-Dinitroethylenes; 1.12.2 Other Routes to Aliphatic Nitro Compounds; 1.12.3 Selective Reductions; 1.13 Chemical Stability of Polynitroaliphatic Compounds; 1.13.1 Reactions with Mineral Acids; 1.13.2 Reactions with Base and Nucleophiles; References; 2 Energetic Compounds 1: Polynitropolycycloalkanes; 2.1 Caged Structures as Energetic Materials; 2.2 Cyclopropanes and Spirocyclopropanes
2.3 Cyclobutanes and Their Derivatives2.4 Cubanes; 2.5 Homocubanes; 2.6 Prismanes; 2.7 Adamantanes; 2.8 Polynitrobicycloalkanes; 2.8.1 Norbornanes; 2.8.2 Bicyclo[3.3.0]octane; 2.8.3 Bicyclo[3.3.1]nonane; References; 3 Synthetic Routes to Nitrate Esters; 3.1 Nitrate Esters as Explosives; 3.2 Nitration of the Parent Alcohol; 3.2.1 O-Nitration with Nitric Acid and Its Mixtures; 3.2.2 O-Nitration with Dinitrogen Tetroxide; 3.2.3 O-Nitration with Dinitrogen Pentoxide; 3.2.4 O-Nitration with Nitronium Salts; 3.2.5 Transfer Nitration; 3.2.6 Other O-Nitrating Agents
3.3 Nucleophilic Displacement with Nitrate Anion3.3.1 Metathesis between Alkyl halides and Silver Nitrate; 3.3.2 Decomposition of Nitratocarbonates; 3.3.3 Displacement of Sulfonate Esters with Nitrate Anion; 3.3.4 Displacement with Mercury (I) Nitrate; 3.4 Nitrate Esters from the Ring-Opening of Strained Oxygen Heterocycles; 3.4.1 Ring-Opening Nitration of Epoxides; 3.4.2 1,3-Dinitrate Esters from the Ring-Opening Nitration of Oxetanes with Dinitrogen Pentoxide; 3.4.3 Other Oxygen Heterocycles; 3.5 Nitrodesilylation; 3.6 Additions to Alkenes; 3.6.1 Nitric Acid and its Mixtures
3.6.2 Nitrogen Oxides

Sommario/riassunto

Organic Chemistry of Explosives is the first text to bring together the essential methods and routes used for the synthesis of organic explosives in a single volume. Assuming no prior knowledge, the book discusses everything from the simplest mixed acid nitration of toluene, to the complex synthesis of highly energetic caged nitro compounds. Reviews laboratory and industrial methods, which can be used to introduce aliphatic C-nitro, aromatic C-nitro, N-nitro, and nitrate ester functionality into organic compoundsDiscusses the advantages and disadvantages of each synthetic m