

1. Record Nr.	UNINA9910830645203321
Autore	Grunanger Paolo
Titolo	Isoxazoles . Part one [[electronic resource] /] / Paolo Grunanger, Paola Vita-Finzi
Pubbl/distr/stampa	New York, : John Wiley & Sons, 1991
ISBN	1-282-30723-1 9786612307232 0-470-18735-2 0-470-18887-1
Descrizione fisica	1 online resource (904 p.)
Collana	Chemistry of heterocyclic compounds, , 0069-3154 ; ; v. 49
Altri autori (Persone)	Vita-FinziPaola DowlingJames Edward <1966->
Disciplina	547.592 547/.59/05 547/.592
Soggetti	Oxazoles Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	ISOXAZOLES; The Chemistry of Heterocyclic Compounds Introduction to the Series; Preface; Contents; CHAPTER 1; 1. Isoxazoles; 1.1 Introduction; 1.2 Physicochemical Properties; 1.2.1 Infrared Spectra; 1.2.2 Ultraviolet Spectra; 1.2.3 Nuclear Magnetic Resonance Spectra; 1.2.3.1 PMR Spectra; 1.2.3.2 <sup>13</sup> C-NMR Spectra; 1.2.3.3 <sup>14</sup> N- and <sup>15</sup> N-NMR Spectra; 1.2.3.4 Other Nuclei NMR Spectra; 1.2.4 Mass Spectra; 1.2.5 Other Spectra; 1.2.5.1 Microwave Spectra; 1.2.5.2 Photoelectron Spectra; 1.2.5.3 Electron Paramagnetic Resonance Spectra; 1.2.5.4 Electron Spin Resonance Spectra 1.2.5.5 Nuclear Quadrupole Resonance Spectra1.2.5.6 Other Spectra; 1.2.6 Crystal and Molecular Structure; 1.2.7 Dipole Moments; 1.2.8 Theoretical Calculations; 1.2.8.1 Reactivity, Aromaticity, and Electron Density; 1.2.8.2 Molecular Geometry; 1.2.8.3 Basicity and Dipole Moments; 1.2.8.4 Ionization Potentials; 1.2.8.5 Molecular Core Binding Energy; 1.2.8.6 Spectroscopic Data and Conformational Analysis; 1.2.9 Basicity; 1.2.10 Miscellaneous Data; 1.2.11 Analytical Methods; 1.3

Methods of Preparation; 1.3.1 [CCC + NO] Processes; 1.3.1.1 Oximation of 1, 3-Dicarbonyl (and Related) Compounds 1.3.1.2 Oximation of  $\alpha$ -Acetylenic Carbonyl (and Related) Compounds 1.3.1.3 Oximation of  $\alpha$ -Dihalocarbonyl (and Related) Compounds; 1.3.1.4 Oximation of  $\gamma$ ,  $\delta$ -Ethylenic Carbonyl (and Related) Compounds 8-Substituted with Electron-Withdrawing Groups; 1.3.1.5 Oximation of  $\alpha$ ,  $\beta$ -Ethylenic Carbonyl (and Related) Compounds; 1.3.1.6 Other Oximation Reactions; 1.3.1.7 Synthesis from Unsaturated Compounds and Nitric (Nitrous) Acid; 1.3.1.8 Nitrosation of Ketodicarboxylic Esters; 1.3.2 [CNO + CC] Processes; 1.3.2.1 Cycloaddition of Nitrile Oxides (or Their Precursors) to Acetylenic Compounds 1.3.2.2 Cycloaddition of Nitrile Oxides (or Their Precursors) to Ethylenic Compounds 1.3.2.3 Cycloaddition of Nitrile Oxides (or Their Precursors) with Active Methylene Compounds; 1.3.2.4 Cycloaddition of Nitrile Oxides (or Their Precursors) with Sodium Acetylides or Acetylenic Grignard Reagents; 1.3.2.5 Other [CNO + CC] Processes; 1.3.3 [CNO + 2C] Processes: Syntheses from Nitro Derivatives; 1.3.4 [CCNO + C] Processes; 1.3.4.1 Synthesis from Oxime Dilithium Salts and Carboxylic Acid Derivatives; 1.3.4.2 Reaction of  $\alpha$ -Chloroketoximes with Ylides; 1.3.5 [CCCN + O] Process 1.3.6 Cyclization Processes 1.3.6.1 [OCCCN] Processes; 1.3.6.2 [CCCON] Processes; 1.3.6.3 [CCNOC] Processes; 1.3.6.4 [CCCNO] Processes; 1.3.7 From Heterocyclic Compounds; 1.3.7.1 From Other 1, 2-Oxazole Derivatives; 1.3.7.2 From Other Heterocycles; 1.4 Chemical Properties; 1.4.1 Protonation and Quaternization; 1.4.2 Complexation; 1.4.2.1 Metallic Complexes; 1.4.2.2 Molecular Complexes; 1.4.3 Reduction Reactions; 1.4.3.1 Hydrogenolytic Ring Cleavage; 1.4.3.2 Reductions without Ring Cleavage; 1.4.4 Oxidation Reactions; 1.4.5 Thermolysis and Photolysis; 1.4.6 Reactions with Nucleophiles 1.4.6.1 Reactions with Ring Cleavage

## Sommario/riassunto

Isoxazoles. Isoxazolines (Dihydroisoxazoles). Isoxazolidines (Tetrahydroisoxazoles). References. Index.