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Nota di contenuto

CONDENSED PYRIDAZINE AND PYRAZINE RINGS (Cianolines, Phthalazines, and Quinoxalines); J. C. E. Simpson, 1908-1952; Preface; Contents; PART I. Cinnolines; I . General Introduction to Cinnoline Derivatives. Preparation and Properties of Cinnoline; 1. General Introduction to Cinnoline Derivatives; 2. Preparation and Properties of Cinnoline; II. 4-Aryl-, 4-Aeyl-, and 4-Carboxycinnolines; 1. 4-Arylcinnolines; 2. 4-Acylcinnolines; 3. 4-Carboxycinnolines (Cinnoline-4-carboxylic Acids); III. 4-Methylcinnolines; IV. 4-Hydroxycinnolines; 1. Methods of Preparation; A . Richter Synthesis
B . Pfannstiel and Janecke SynthesisC. Borsehe Synthesis; 2. Properties; A. 4-Hydroxycinnolines Other Than 4-Hydroxycinnoline-3-carboxylic Acids; B. 4-Hydroxycinnoline-3-carboxylic Acids; V. 4-Chloro-, 4-Alkoxy-, and 4-Phenoxycinnolines; 1. 4-Chlorocinnolines; 2. 4-Alkoxycinnoline; 3. 4-Phenoxycinnoline; VI. 4-Aminocinnolines; 1. Primary Amino Compounds; 2. Secondary Amino Compounds; A. 4-Arylaminocinnolines; B. 4-Dialkylaminoalkylaminocinnolines; C. 4-Hydroxylamino-7-acetylcinnolineoxime; VII. Cinnoline Quaternary Salts; A. Preparation; B. Structure; C. Reactions; VIII . Reduced Cinnolines
1. Reduced Cinnolines with Nonoxygenated RingsA . Dihydrocinnolines; B . Tetrahydrocinnoline; C . Hexahydrocinnolines; 2 . Reduced Cinnolines with Oxygenated Rings; A . Reduced 3- and 4-Hydroxycinnolines; B . 1-Methyl -4-keto-1,4-dihydrocinnolines; C . Methyl 4-Keto-4,6-dihydrocinnolyl-6-nitronates; D . 3-Acetoxy-2-aryl-6-keto-2,6-dihydrocinnolines; E. 2-Pheny1-3-keto-hydroxy-2,3,5,6,7,8-hexahydrocinnoline; IX . Cinnolines Containing Additional Fused Rings; 1. 3,4--Benzocinnolines; 2. Tetrahydro-3,4-benzocinnolines; 3. Other Cinnolines with Additional Aromatic Rings
4. Cinnolines Containing Bridged Rings5. Cinnolinea Containing Fused Heterocyclic Rings; PART II . Phthalazines; X . Phthalazines Unsubstituted in the Hetero Ring; 1. Phthalazine; 2. 5,6-Dihydroxyphthalazine; XI . 1-Alkyl-, 1-Aryl-, and 1,4-Diarylphthalazines; 1. 1-Alkyl- and 1-Arylphthalazines; 2 . 1,4-Diarylphthalazines; XII. 1-Hydroxyphthalazines; A. Preparation; B . Properties.; Xlll. Alkyl, Aryl, and Acyl Derivatives of 4-(1-) Hydroxyphthalazines; 1. O-Derivatives; 2. N-Derivatives (3-Substituted-4-keto-3,4-hydrophthalazines); A . Compounds without a 1-Substituent
3Aryl-, 3-Alkyl-, and 3-Aralky-4-keto-3,4-dihydrophthalazinesB . Compounds with a 1-Substituent; 3. Derivatives of Unknown Structure; XIV. 1-Hydroxy-3-aryl-3,4-dihydrophthalazine- 4-acetic Acids; A . Preparation; B . Properties; XV. 3-Aryl-1-ketophthalazines; A . Preparation; B. Properties and Reactions; XVI . Methylated Derivatives of 3-Aryl-1-ketophthalazines; 1. Derivatives of Compounds Containing a Hydrogen Atom at C4; A. 1.Methoxy-4-alkoxy-3-aryl-3,4-dihydrophthalazines; B. 1-Methoxy-3-arylphthalazinium Perchlorates
2. Derivatives of Compounds Containing a Methyl Group at C4 : 1-Methoxy-3-aryl-4-methylene-3,4-dihydrophthalazines

Sommario/riassunto

A volume in the Chemistry of Heterocyclic Compounds series, this book provides a summary of the chemistry of each of the six naphthyridine systems along with tables of known simple derivatives with original references. Each of the six naphthyridine systems are described in valuable detail and coverage includes: Primary synthetic methods from non-naphthyridine substrates; Chemistry and properties of the parent heterocycle and its simple alkyl derivatives; Formation and reactions of halogeno derivatives; formation and reactions of hydroxy, oxo, alkoxy, and related derivatives.