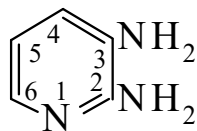




>>Entry Name: 2,3-Pyridinediamine, 9CI

Synonym(s): 2,3-Diaminopyridine



CAS Registry Number: 452-58-4

Molecular Formula: C₅H₇N₃

Molecular Weight: 109.13

Accurate Mass: 109.063997

Percentage Composition: C 55.03%; H 6.47%; N 38.50%

Use/Importance: Used in photometric detn. of Ru

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 116°

pKa Value: pK_{a1} 6.88; pK_{a2} -0.5 (25°) pK_a 6.84

Other Data: Sublimes

Hazard & Toxicity: LD₅₀ (mus, ipr) 25 mg/kg

Aldrich: 12585-7

Fluka: 33310

Sigma: D1752

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 297A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 769D, (*ir*)

Org. Synth., 1964, **44**, 34, (*synth*)

Streef, J.W. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1966, **85**, 803, (*synth*)

Ayres, G.H. *et al.*, *Anal. Chim. Acta*, 1969, **44**, 67, (*detn, Ru*)

Essassi, E.M. *et al.*, *Tetrahedron*, 1977, **33**, 2807, (*synth*)

Zecchini, G.P. *et al.*, *J. Het. Chem.*, 1985, **22**, 313, (*derivs*)

Campbell, J.B. *et al.*, *J. Het. Chem.*, 1986, **23**, 669, (*synth, pmr*)