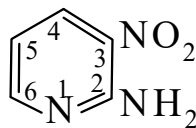




>>Entry Name: 2-Amino-3-nitropyridine

Synonym(s): 3-Nitro-2-pyridinamine, 9CI



CAS Registry Number: 4214-75-9

Molecular Formula: $C_5H_5N_3O_2$

Molecular Weight: 139.113

Accurate Mass: 139.038177

Percentage Composition: C 43.17%; H 3.62%; N 30.21%; O 23.00%

Physical Description: Yellow cryst.

Melting Point: Mp 164°

pKa Value: pK_a 2.33 (20°)

Aldrich: 11351-4

Fluka: 8940

>>Derivative: 2-N-Me

CAS Registry Number: 4093-88-3

Molecular Formula: $C_6H_7N_3O_2$

Molecular Weight: 153.14

Accurate Mass: 153.053827

Percentage Composition: C 47.06%; H 4.61%; N 27.44%; O 20.90%

Physical Description: Golden-yellow cryst.

Melting Point: Mp 63-64°

Boiling Point: Bp 262-262.5° dec.

Solubility: Sol. H_2O

>>Derivative: 2-N-Nitro

CAS Registry Number: 6936-39-6

Molecular Formula: $C_5H_4N_4O_4$

Molecular Weight: 184.111

Accurate Mass: 184.023256

Percentage Composition: C 32.62%; H 2.19%; N 30.43%; O 34.76%

Physical Description: Yellow cryst. (H_2O)

Melting Point: Mp 137°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 776A, (ir)

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **3**, 305B, (nmr)

Pino, C.N. *et al.*, *J.A.C.S.*, 1955, **77**, 3154-3155, (synth)

Destro, R. *et al.*, *Acta Cryst. B*, 1975, **31**, 2883-2885, (cryst struct)

Mertens, H. *et al.*, *Annalen*, 1986, 380-383, (synth)

Campbell, J.B. *et al.*, *J. Het. Chem.*, 1986, **23**, 669-672, (synth, pmr)

Gawinecki, R. *et al.*, *Org. Mass Spectrom.*, 1991, **26**, 100-104, (ms)

Kolehmainen, E. *et al.*, *Magn. Reson. Chem.*, 1992, **30**, 527-534, (pmr, cmr, N-15 nmr)