



>>Entry Name: 2-Amino-5-nitropyridine

Synonym(s): 5-Nitro-2-pyridinamine, 9CI

CAS Registry Number: 4214-76-0

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 188°

pKa Value: pK_a 2.78 (20°)

Aldrich: A7080-1

Fluka: 8950

>>Derivative: 2-*N*-Me

CAS Registry Number: 4093-89-4

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: Yellow needles (heptane)

Melting Point: Mp 181°

Rare Chemicals Library: S44746-3

>>Derivative: 2-*N*-Nitro

CAS Registry Number: 15367-00-7

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: Cryst. (H₂O)

Other Data: Dec. on heating

References:

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

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

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

Barlin, G.B. *et al.*, *J.C.S. Perkin 1*, 1972, 1269-1272, (*synth*)

Szpakiewicz, B. *et al.*, *J. Prakt. Chem.*, 1999, **341**, 75-78, (*N-Me*)

Bakke, J.M. *et al.*, *J.C.S. Perkin 1*, 2001, 376-378, (*synth*, *ir*, *pmr*)