



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

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

CAS Registry Number: 15128-82-2

Molecular Formula: $C_5H_4N_2O_3$

Molecular Weight: 140.098

Accurate Mass: 140.022193

Percentage Composition: C 42.87%; H 2.88%; N 20.00%; O 34.26%

Melting Point: Mp 67-69°

Other Data: Subl. at 1 mm.

Aldrich: 10725-5

>>Derivative: 3-Ac

CAS Registry Number: 15128-86-6

Molecular Formula: $C_7H_6N_2O_4$

Molecular Weight: 182.135

Accurate Mass: 182.032758

Percentage Composition: C 46.16%; H 3.32%; N 15.38%; O 35.14%

Melting Point: Mp 50-51°

Boiling Point: Bp_{0.03} 101°

>>Derivative: Me ether

Synonym(s): 3-Methoxy-2-nitropyridine

Molecular Formula: $C_6H_6N_2O_3$

Molecular Weight: 154.125

Accurate Mass: 154.037843

Percentage Composition: C 46.76%; H 3.92%; N 18.18%; O 31.14%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 73-75°

>>Derivative: Et ether

Synonym(s): 3-Ethoxy-2-nitropyridine

CAS Registry Number: 74037-50-6

Molecular Formula: $C_7H_8N_2O_3$

Molecular Weight: 168.152

Accurate Mass: 168.053493

Percentage Composition: C 50.00%; H 4.80%; N 16.66%; O 28.54%

Melting Point: Mp 30-31°

Boiling Point: Bp₅₀ 175°

Other Data: Flammable. Irritant

Aldrich: 11621-1

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **3**, 306A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 777A, (ir)

Bernstein, J. *et al.*, *J.A.C.S.*, 1947, **69**, 1157

DeSelms, R.C., *J.O.C.*, 1968, **33**, 478, (synth)

Barlin, G.B. *et al.*, *Aust. J. Chem.*, 1995, **48**, 1031, (Me ether)