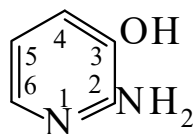




>>Entry Name: **2-Amino-3-hydroxypyridine**

Synonym(s): 2-Amino-3-pyridinol, 9Cl, 8Cl. 3-Hydroxy-2-pyridinamine



CAS Registry Number: 16867-03-1

Molecular Formula: C₅H₆N₂O

Molecular Weight: 110.115

Accurate Mass: 110.048013

Percentage Composition: C 54.54%; H 5.49%; N 25.44%; O 14.53%

Use/Importance: Used as a soln. in 95% EtOH or 10% AcOH for photometric detn. of Fe(III), Os ($\lambda_{\max}$ 600 nm, ϵ 9000), Ru(III) ($\lambda_{\max}$ 510-525 nm, ϵ 4460)

Physical Description: Cryst. (MeOH)

Melting Point: Mp 172°

Solubility: Sol. EtOH, MeOH, acids, alkalis; spar. sol. H₂O

Aldrich: 12251-3

Fluka: 8208

Sigma: A9281

>>Derivative: Picrate

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 256 dec.°

>>Derivative: N,N-Di-Me

Molecular Formula: C₇H₁₀N₂O

Molecular Weight: 138.169

Accurate Mass: 138.079313

Percentage Composition: C 60.85%; H 7.29%; N 20.27%; O 11.58%

Physical Description: Solid

Melting Point: Mp 128°

>>Derivative: Me ether

Synonym(s): 3-Methoxy-2-pyridinamine, 9Cl. 2-Amino-3-methoxypyridine

CAS Registry Number: 10201-71-5

Molecular Formula: C₆H₈N₂O

Molecular Weight: 124.142

Accurate Mass: 124.063663

Percentage Composition: C 58.05%; H 6.50%; N 22.57%; O 12.89%

Physical Description: Solid

Melting Point: Mp 68-69°

References:

- Aldrich Library of NMR Spectra*, 2nd edn., 1983, **2**, 649A, (nmr)
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 770A, (ir)
Frazer, J. *et al.*, *J.C.S.*, 1957, 4625, (synth)
Boyland, E. *et al.*, *J.C.S.*, 1958, 4198, (synth)
Lewicka, K. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1959, **78**, 644, (synth)
Brown, E.V. *et al.*, *Org. Prep. Proced. Int.*, 1970, **2**, 285-289, (Me ether)
Mehta, Y.L. *et al.*, *J. Chin. Chem. Soc. (Peking)*, 1974, **21**, 127, (detn, Ru)
Kushwaha, V. *et al.*, *Talanta*, 1974, **21**, 763, (detn, Ru, Fe)
Mehta, Y.L. *et al.*, *J. Indian Chem. Soc.*, 1976, **53**, 402, (detn, Os)
Mehta, Y.L. *et al.*, *Talanta*, 1976, **23**, 53, (detn, Os)
Greuter, H. *et al.*, *J. Het. Chem.*, 1977, **14**, 203, (synth)
Dollé, F. *et al.*, *J. Med. Chem.*, 1999, **42**, 2251-2259, (N,N-di-Me)
Trapani, G. *et al.*, *J. Med. Chem.*, 1999, **42**, 3934-3941, (Me ether)