



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

Synonym(s): 6-Amino-3-pyridinol, 9Cl. 5-Hydroxy-2-pyridinamine

CAS Registry Number: 55717-46-9

Molecular Formula: $C_5H_6N_2O$

Molecular Weight: 110.115

Accurate Mass: 110.048013

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

>>Derivative: Hydrochloride

Physical Description: Pale-yellow cryst. (EtOH/Et₂O)

Melting Point: Mp 124-126°

>>Derivative: Me ether

Synonym(s): 2-Amino-5-methoxypyridine

CAS Registry Number: 10167-97-2

Molecular Formula: $C_6H_8N_2O$

Molecular Weight: 124.142

Accurate Mass: 124.063663

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

Physical Description: Oil or low melting solid

Melting Point: Mp 36-38°

Boiling Point: Bp₁₀ 128-130°

>>Derivative: Me ether, hydrochloride

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 145-146°

>>Derivative: Me ether, picrate

Physical Description: Cryst. (EtOH)

Melting Point: Mp 235 dec.°

>>Derivative: Me ether, *N*-Ac

Molecular Formula: $C_8H_{10}N_2O_2$

Molecular Weight: 166.179

Accurate Mass: 166.074228

Percentage Composition: C 57.82%; H 6.07%; N 16.86%; O 19.26%

Physical Description: Needles (C₆H₆/petrol)

Melting Point: Mp 102-103°

References:

Scudi, J.V. *et al.*, *J. Biol. Chem.*, 1956, **218**, 587, (*synth*)

Urban, R. *et al.*, *Helv. Chim. Acta*, 1964, **47**, 363-379, (*Me ether*)

Clark, G.J. *et al.*, *Aust. J. Chem.*, 1981, **34**, 927-932, (*Me ether*)

Lombardino, J.G., *J. Med. Chem.*, 1981, **24**, 39-42, (*Me ether*)

Trapani, G. *et al.*, *J. Med. Chem.*, 1997, **40**, 3109-3118, (*Me ether, synth, ir, pmr*)