



>>Entry Name: 4-Amino-2-hydroxypyridine

Synonym(s): 4-Amino-2(1*H*)-pyridinone, 9CI. 4-Amino-2-pyridinol

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%

General Statement: *NH*-form predominates

>>Variant: *NH*-form

CAS Registry Number: 38767-72-5

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%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 214°

>>Derivative: *N*-Oxide

CAS Registry Number: 13602-69-2

Molecular Formula: C₅H₆N₂O₂

Molecular Weight: 126.115

Accurate Mass: 126.042928

Percentage Composition: C 47.62%; H 4.80%; N 22.21%; O 25.37%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 230-233 dec.°

>>Derivative: *N*-Oxide; hydrochloride

CAS Registry Number: 13602-68-1

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 191-193 dec.°

>>Variant: *OH*-form

CAS Registry Number: 33630-97-6

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%

>>Derivative: Me ether

Synonym(s): 4-Amino-2-methoxypyridine, 8CI

CAS Registry Number: 20265-39-8

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: Needles (petrol)

Melting Point: Mp 92°

References:

Barlin, G.B. *et al.*, *J.C.S.(B)*, 1971, 1425, (*synth*, *uv*)

Hung, N.C. *et al.*, *Synthesis*, 1984, 765, (*synth*)

Searls, T. *et al.*, *Tetrahedron*, 1999, **55**, 11985-11986, (*synth*, *pmr*, *cmr*, *uv*)