



>>Entry Name: **3-Amino-4-hydroxypyridine**

Synonym(s): 3-Amino-4(1*H*)-pyridinone. 3-Amino-4-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: 15590-89-3

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: Prisms

Other Data: Oxidises in air

>>Derivative: Hydrochloride (1:2)

Physical Description: Cream cryst.

Melting Point: Mp 228-230 dec.°

>>Derivative: 1-Me

Synonym(s): 3-Amino-1-methyl-4(1*H*)-pyridinone

CAS Registry Number: 33631-10-6

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: Cryst. (EtOAc)

Melting Point: Mp 147-148°

>>Derivative: 1-Me, picrate

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 209-210 dec.°

>>Derivative: 1-Me, *N*³-Ac

Molecular Formula: C₈H₁₀N₂O₂

Molecular Weight: 166.179

Accurate Mass: 166.074228

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

Physical Description: Long needles (C₆H₆)

Melting Point: Mp 185-186°

>>Derivative: 1-*N*-Me, *N*³,*N*³-di-Ac

Molecular Formula: C₁₀H₁₂N₂O₃

Molecular Weight: 208.216

Accurate Mass: 208.084793

Percentage Composition: C 57.69%; H 5.81%; N 13.45%; O 23.05%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 150-152°

>>Variant: *OH*-form

CAS Registry Number: 6320-39-4

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%