>>**Entry Name: 5-Amino-3-hydroxypyridazine**
Synonym(s): 5-Amino-3(2*H*)-pyridazinone, 9CI. 5-Amino-3-pyridazinol

CAS Registry Number: 89033-30-7

Molecular Formula: $C_4H_5N_3O$
Molecular Weight: 111.103
Accurate Mass: 111.043262
Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%
Physical Description: Cryst. (H_2O)
Melting Point: Mp 293-296°

>>**Variant:** 2*H*-form

Molecular Formula: $C_4H_5N_3O$
Molecular Weight: 111.103
Accurate Mass: 111.043262
Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%

>>**Derivative:** N^2-Me

CAS Registry Number: 13506-27-9
Molecular Formula: $C_5H_7N_3O$
Molecular Weight: 125.13
Accurate Mass: 125.058912
Percentage Composition: C 47.99%; H 5.64%; N 33.58%; O 12.79%
Physical Description: Plates (EtOAc)
Melting Point: Mp 193.5-194.5°

>>**Variant:** *OH*-form

Molecular Formula: $C_4H_5N_3O$
Molecular Weight: 111.103
Accurate Mass: 111.043262
Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%

>>**Derivative:** Me ether
Synonym(s): 6-Methoxy-4-pyridazinamine

Molecular Formula: $C_5H_7N_3O$
Molecular Weight: 125.13
Accurate Mass: 125.058912
Percentage Composition: C 47.99%; H 5.64%; N 33.58%; O 12.79%
Physical Description: Solid (EtOAc)
Melting Point: Mp 162-163°

>>**Derivative:** Me ether, N^1-oxide

CAS Registry Number: 20886-85-5
Molecular Formula: $C_5H_7N_3O_2$
Molecular Weight: 141.129
Accurate Mass: 141.053827
Percentage Composition: C 42.55%; H 5.00%; N 29.77%; O 22.67%
Physical Description: Needles (H_2O)
Melting Point: Mp 172-173°

References:

Kuraishi, T.*, Chem. Pharm. Bull.*, 1958, **6**, 331, *(synth)*
Osner, W.M. *et al.*, *J. Pharm. Sci.*, 1963, **52**, 539, *(synth)*
Nakagone, T. *et al.*, *Chem. Pharm. Bull.*, 1966, **14**, 1082, *(2-Me)*
Coates, W.J. *et al.*, *Heterocycles*, 1989, **29**, 1077, *(synth, pmr)*