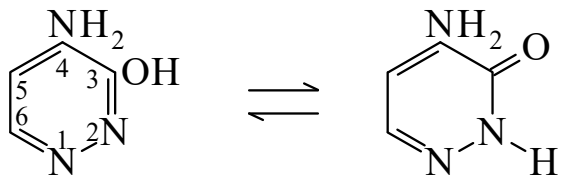
>>**Entry Name: 4-Amino-3-hydroxypyridazine**
Synonym(s): 4-Amino-3(2*H*)-pyridazinone, 9CI. 4-Amino-3-pyridazinol



CAS Registry Number: 55271-46-0

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: Plates (H_2O)
Melting Point: Mp 232-234°

>>**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: 13563-36-5
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: Rods (EtOAc)
Melting Point: Mp 175-176°

>>**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): 3-Methoxy-4-pyridazinamine, 9CI

CAS Registry Number: 89179-63-5
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: Cryst. (C_6H_6)
Melting Point: Mp 127°

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

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 ($CHCl_3$)
Melting Point: Mp 180 dec.°

References:

Kuraishi, T.*, Chem. Pharm. Bull.*, 1958, **6**, 331, *(synth)*
Igeta, H.*, Chem. Pharm. Bull.*, 1960, **8**, 550, *(synth, Me ether)*
Nakagona, T. *et al.*, *Chem. Pharm. Bull.*, 1966, **14**, 1082, *(2-Me)*
Tondys, H. *et al.*, *J. Het. Chem.*, 1986, **23**, 621, *(Me ether)*
Coates, W.J. *et al.*, *Heterocycles*, 1989, **29**, 1077; 1993, **35**, 1313, *(synth, pmr)*
Plé, N. *et al.*, *Synthesis*, 1996, 838, *(Me ether)*