



>>Entry Name: 5-Amino-3-hydroxypyridazine

Synonym(s): 5-Amino-3(2*H*)-pyridazinone, 9Cl. 5-Amino-3-pyridazinol

CAS Registry Number: 89033-30-7

Molecular Formula: C<sub>4</sub>H<sub>5</sub>N<sub>3</sub>O

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<sub>2</sub>O)

Melting Point: Mp 293-296°

>>Variant: 2*H*-form

Molecular Formula: C<sub>4</sub>H<sub>5</sub>N<sub>3</sub>O

Molecular Weight: 111.103

Accurate Mass: 111.043262

Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%

>>Derivative: *N*<sup>2</sup>-Me

CAS Registry Number: 13506-27-9

Molecular Formula: C<sub>5</sub>H<sub>7</sub>N<sub>3</sub>O

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<sub>4</sub>H<sub>5</sub>N<sub>3</sub>O

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<sub>5</sub>H<sub>7</sub>N<sub>3</sub>O

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*<sup>1</sup>-oxide

CAS Registry Number: 20886-85-5

Molecular Formula: C<sub>5</sub>H<sub>7</sub>N<sub>3</sub>O<sub>2</sub>

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<sub>2</sub>O)

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*)