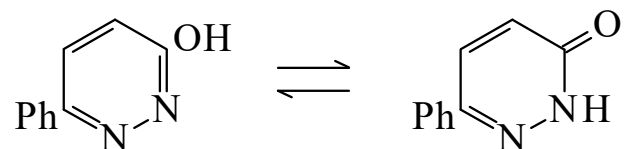




>>Entry Name: 3-Hydroxy-6-phenylpyridazine

Synonym(s): 6-Phenyl-3-pyridazinol. 6-Phenyl-3(2*H*)-pyridazinone, 9CI



CAS Registry Number: 2166-31-6

Molecular Formula: C₁₀H₈N₂O

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 202-203°

>>Variant: *OH*-form

Molecular Formula: C₁₀H₈N₂O

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

>>Derivative: Me ether

Synonym(s): 3-Methoxy-6-phenylpyridazine, 9CI

CAS Registry Number: 4578-42-1

Molecular Formula: C₁₁H₁₀N₂O

Molecular Weight: 186.213

Accurate Mass: 186.079313

Percentage Composition: C 70.95%; H 5.41%; N 15.04%; O 8.59%

Physical Description: Pale tan cryst.

Melting Point: Mp 116-118°

>>Variant: *NH*-form

Molecular Formula: C₁₀H₈N₂O

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

>>Derivative: 2-Me

Synonym(s): 2-Methyl-6-phenyl-3(2*H*)-pyridazinone, 9CI

CAS Registry Number: 2165-04-0

Molecular Formula: C₁₁H₁₀N₂O

Molecular Weight: 186.213

Accurate Mass: 186.079313

Percentage Composition: C 70.95%; H 5.41%; N 15.04%; O 8.59%

Physical Description: Needles (H₂O)

Melting Point: Mp 113-113.5°

References:

Gabriel, S. *et al.*, *Ber.*, 1899, **32**, 395, (*synth*)

Crossland, I. *et al.*, *Acta Chem. Scand.*, 1965, **19**, 1652, (*Me ether*)

Schreiber, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1973, 625, (*synth, uv, ir, pmr*)

Steck, E.A. *et al.*, *J. Het. Chem.*, 1974, **11**, 755, (*N-Me*)

Prout, K. *et al.*, *Acta Cryst. B*, 1994, **50**, 71, (*cryst struct*)

Csende, F. *et al.*, *Synthesis*, 1995, 1240, (*synth, pmr, ir, ms*)