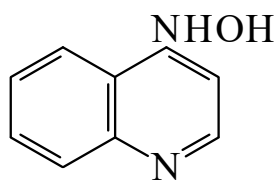




>>Entry Name: 4-(Hydroxyamino)quinoline

Synonym(s): *N*-Hydroxy-4-quinolinamine, 9Cl. 4-Hydroxylaminoquinoline



CAS Registry Number: 13442-05-2

Related CAS Registry Numbers(s): 1010-61-3

Molecular Formula: C₉H₈N₂O

Molecular Weight: 160.175

Accurate Mass: 160.063663

Percentage Composition: C 67.49%; H 5.03%; N 17.49%; O 9.99%

>>Derivative: Hydrochloride

CAS Registry Number: 21626-47-1

Melting Point: Mp 161-162°

>>Derivative: 1-Oxide

CAS Registry Number: 4637-56-3

Molecular Formula: C₉H₈N₂O₂

Molecular Weight: 176.174

Accurate Mass: 176.058578

Percentage Composition: C 61.36%; H 4.58%; N 15.90%; O 18.16%

Source/Synthesis: Intermed. in carcinogenic activity of 4-aminoquinoline 1-oxide and related compds.

Physical Description: Pale-brown needles or powder (MeOH)

Melting Point: Mp 190 dec.°

Other Data: Exists mainly as its hydroxyimino tautomer

Hazard & Toxicity: Exp. carcinogen. Mutagen. Pancreas is a target organ in rodents

References:

Itai, T. *et al.*, *Chem. Pharm. Bull.*, 1961, **9**, 87, (*oxide*)

Hamana, M. *et al.*, *Yakugaku Zasshi*, 1962, **84**, 42, (*synth*)

Kawazoe, Y. *et al.*, *Tetrahedron*, 1980, **36**, 2933, (*uv, pmr, struct, oxide*)

Rao, M.S. *et al.*, *Int. J. Pancreatol.*, 1987, **2**, 1, (*tox*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, HIY500; HIZ000