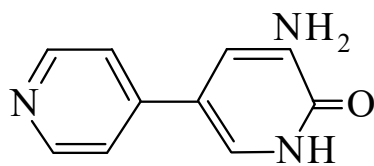




>> **Name:** Amrinone, BAN, INN, USAN

Synonym(s): 5-Amino-4-hydroxy-3,4'-bipyridine. 5-Amino-[3,4'-bipyridine]-6(1*H*)-one, 9Cl. Cordemcura. Inocor. Wincoram. Win 40680



CAS Registry Number: 60719-84-8

Molecular Formula: C₁₀H₉N₃O

Molecular Weight: 187.201

Accurate Mass: 187.074562

Percentage Composition: C 64.16%; H 4.85%; N 22.45%; O 8.55%

Use/Importance: Cardiac inotropic agent

Physical Description: Cryst. (DMF)

Development Status: Launched 1983. Discontinued

Melting Point: Mp 294-297 dec.°

Calculated Log P Data: Log P -0.7 (calc)

Hazard & Toxicity: Adverse effects incl. cardiac arrhythmias, dose-dependent thrombocytopenia and hepatotoxicity. LD₅₀ (rat, orl) 102 mg/kg. Exp. reprod. and teratogenic effects

Sigma: A4056

References:

- U.S. Pat.*, 1978, 4 107 315; *CA*, **90**, 103844r, (*synth*)
Alousi, A.A. *et al.*, *Pharmacol. Biochem. Prop. Drug Subst.*, 1981, **3**, 120, (*rev, pharmacol*)
Ward, A. *et al.*, *Drugs*, 1983, **26**, 468, (*rev, pharmacol*)
Gomez-Parra, V. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1984, **317**, 183, (*synth*)
Perry, R.S., *Drugs of Today (Barcelona)*, 1984, **20**, 381, (*rev*)
Robertson, D.W. *et al.*, *J. Med. Chem.*, 1986, **29**, 635, (*cryst struct*)
Niedrich, H. *et al.*, *Pharmazie*, 1986, **41**, 173; 176; 181, (*synth, cryst struct, tautom*)
Landmann, H. *et al.*, *Arch. Toxicol., Suppl.*, 1988, 418, (*tox, rev*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 663
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AOD375