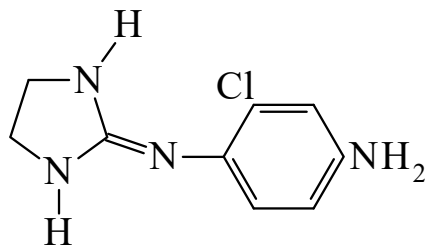




>>Entry Name: Apraclonidine, BAN, INN

Synonym(s): 2,6-Dichloro-*N'*-(4,5-dihydro-1*H*-imidazol-2-yl)-1,4-benzenediamine, 9Cl. *p*-Aminoclonidine. Aplonidine



CAS Registry Number: 66711-21-5

Related CAS Registry Numbers(s): 128374-52-7 128374-53-8

Molecular Formula: C₉H₁₀Cl₂N₄

Molecular Weight: 245.11

Accurate Mass: 244.02825

Percentage Composition: C 44.10%; H 4.11%; Cl 28.93%; N 22.86%

Use/Importance: α_2 -Adrenoceptor agonist. Ophthalmologic agent, used to control intraocular pressure following eye surgery

Physical Description: Cryst. (MeCN)

Development Status: Launched 1988

Melting Point: Mp 230°

Calculated Log P Data: Log P 0.77 (calc)

Sigma: A0779

>>Derivative: Hydrochloride

Synonym(s): Apraclonidine hydrochloride, USAN. Iopidine. ALO2145

CAS Registry Number: 73218-79-8

Physical Description: Cryst. (EtOH)

Melting Point: Mp 260°

Hazard & Toxicity: LD₅₀ (rat, orl) 38 mg/kg. LD₅₀ (rat, ivn) 9 mg/kg

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 73217-88-6

Physical Description: Cryst. (MeOH/EtOH)

Melting Point: Mp 300°

References:

- Rouot, B. *et al.*, *Bull. Soc. Chim. Fr.*, 1979, 520, (*synth*)
Cavero, I. *et al.*, *Br. J. Pharmacol.*, 1980, **69**, 295P; **71**, 5, (*pharmacol*)
U'Prichard, D.C., *Prog. Clin. Biol. Res.*, 1981, **71**, 53, (*rev, pharmacol*)
Van Dort, M. *et al.*, *J. Med. Chem.*, 1987, **30**, 1241, (*synth*)
Robinson, C.P., *Drugs of the Future*, 1988, **13**, 507, (*rev*)
Hurvitz, L.M. *et al.*, *Drugs*, 1991, **41**, 514, (*rev*)
Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 342