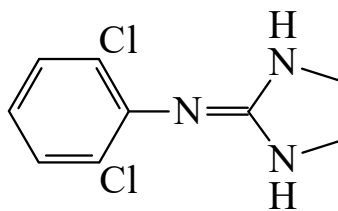




>>>**Entry Name:** Clonidine, BAN, INN, USAN

Synonym(s): *N*-(2,6-Dichlorophenyl)-4,5-dihydro-1*H*-imidazol-2-amine, 11Cl. 2,6-Dichloro-*N*-2-imidazolidinylidenebenzenamine, 9Cl. 2-(2,6-Dichloroanilino)-2-imidazoline, 8Cl. Catapressan. Many other names



CAS Registry Number: 4205-90-7

Molecular Formula: C₉H₉Cl₂N₃

Molecular Weight: 230.096

Accurate Mass: 229.017351

Percentage Composition: C 46.98%; H 3.94%; Cl 30.82%; N 18.26%

General Statement: Formerly assumed to have the imidazoline struct.

Use/Importance: α₂-Adrenoceptor agonist. Antihypertensive drug

Melting Point: Mp 136-138°

Calculated Log P Data: Log P 1.37 (calc)

>>>**Derivative:** Hydrochloride

Synonym(s): Clonidine hydrochloride, INN, USAN. Catapres. Dixarit

CAS Registry Number: 4205-91-8

Melting Point: Mp 310-312°

Hazard & Toxicity: Can cause contact dermatitis when used transdermally. Adverse CNS and cardiovascular effects reported. LD₅₀ (rat, orl) 126 mg/kg. Exp. reprod. and teratogenic effects

Fluka: 27545

Sigma: C7897

>>>**Derivative:** *N*-Allyl

see Alinidine, [FLZ38-L](#)

References:

- Rouot, B. *et al.*, *J. Med. Chem.*, 1976, **19**, 1049, (*synth, pharmacol*)
Draffan, G.H. *et al.*, *Adv. Mass Spectrom.*, 1977, **2**, 389, (*ms*)
Walland, A. *et al.*, *Pharmacol. Biochem. Prop. Drug Subst.*, 1977, **1**, 67, (*rev, pharmacol*)
Timmermans, P.B. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1978, **97**, 51, (*synth, props*)
Cody, V. *et al.*, *J. Cryst. Mol. Struct.*, 1980, **9**, 33, (*cryst struct*)
Reid, J.L., *Br. J. Clin. Pharmacol.*, 1981, **12**, 295, (*rev, pharmacol*)
Carpy, A. *et al.*, *Mol. Pharmacol.*, 1982, **21**, 400, (*struct*)
Jarrott, B. *et al.*, *Clin. Exp. Pharmacol. Physiol.*, 1987, **14**, 471, (*rev, pharmacol*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 1131, (*synonyms*)
Ayyangar, N.R. *et al.*, *Synthesis*, 1987, 64, (*synth*)
Abounassif, M.A. *et al.*, *Anal. Profiles Drug Subst.*, 1992, **21**, 109, (*rev*)
Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 348
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CMX760; DGB500