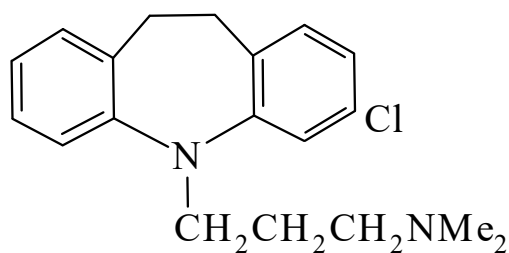




>>Entry Name: Clomipramine, BAN, INN

Synonym(s): 3-Chloro-10,11-dihydro-*N,N*-dimethyl-5*H*-dibenz[*b,f*]azepine-5-propanamine, 9Cl. 3-Chloro-5-(3-dimethylaminopropyl)-10,11-dihydrodibenz[*b,f*]azepine, 8Cl. Chlorimipramine. G 34586



CAS Registry Number: 303-49-1

Molecular Formula: C₁₉H₂₃ClN₂

Molecular Weight: 314.857

Accurate Mass: 314.154975

Percentage Composition: C 72.48%; H 7.36%; Cl 11.26%; N 8.90%

Use/Importance: Antidepressant

Boiling Point: Bp_{0.3} 160-170°

Calculated Log P Data: Log P 5.38 (calc)

Hazard & Toxicity: Human teratogenic and adverse cardiovascular effects reported when used therapeutically. LD₅₀ (rat, orl) 613 mg/kg. Exp. reprod. effects

>>Derivative: Hydrochloride

Synonym(s): Clomipramine hydrochloride, JAN, USAN. Hydiphen. Maronil. Neoprex. Anafranil

CAS Registry Number: 17321-77-6

Melting Point: Mp 189-192°

Hazard & Toxicity: LD₅₀ (rat, orl) 1150 mg/kg. Exp. reprod. effects

Sigma: C8306

>>Derivative: *N*-De-Me

Synonym(s): 3-Chloro-10,11-dihydro-*N*-methyl-5*H*-dibenz[*b,f*]azepine-5-propanamine, 9Cl. Desmethyldomipramine

CAS Registry Number: 303-48-0

Extra CAS Registry Numbers(s): 29854-14-6

Molecular Formula: C₁₈H₂₁ClN₂

Molecular Weight: 300.83

Accurate Mass: 300.139325

Percentage Composition: C 71.87%; H 7.04%; Cl 11.78%; N 9.31%

Source/Synthesis: Metab. of Clomipramine

Use/Importance: Pharmacologically active

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 212-215°

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Ollagnier, M. *et al.*, *Therapie*, 1984, **39**, 237, (*props*)
Craik, D.J. *et al.*, *Chem. Pharm. Bull.*, 1987, **35**, 188, (*cmr, pmr*)
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