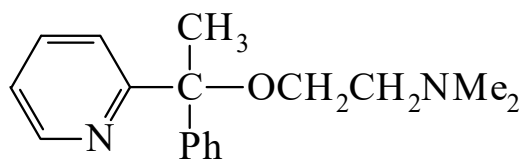




>>Entry Name: Doxylamine, BAN, INN

Synonym(s): *N,N*-Dimethyl-2-[1-phenyl-1-(2-pyridinyl)ethoxy]ethanamine, 9Cl. 2-[α -[2-(Dimethylamino)ethoxy]- α -methylbenzyl]pyridine, 8Cl



CAS Registry Number: 469-21-6

Related CAS Registry Numbers(s): 8064-77-5

Type of Compound Code(s): XA4510

Molecular Formula: C₁₇H₂₂N₂O

Molecular Weight: 270.374

Accurate Mass: 270.173213

Percentage Composition: C 75.52%; H 8.20%; N 10.36%; O 5.92%

Use/Importance: Histamine H₁-receptor antagonist, sedative

>>Variant: ($\pm$)-form

Molecular Formula: C₁₇H₂₂N₂O

Molecular Weight: 270.374

Accurate Mass: 270.173213

Percentage Composition: C 75.52%; H 8.20%; N 10.36%; O 5.92%

Boiling Point: Bp_{0.5} 137-141°

Hazard & Toxicity: Severe skin irritant. Exp. neoplastic agent and teratogen. Exp. reprod. effects. LD₅₀ (mus, orl) 470 mg/kg

>>Derivative: Succinate (1:1)

Synonym(s): Doxylamine succinate, USAN. Histadonylamine succinate. Decapryn succinate. Mereprine. Many other names

CAS Registry Number: 562-10-7

Melting Point: Mp 100-104°

Other Data: Component of Debendox

Hazard & Toxicity: Exp. reprod. and teratogenic effects. Exp. hepatotoxic

Sigma: D3775

References:

Brown, B.A. *et al.*, *J. Lab. Clin. Med.*, 1948, **33**, 319; 325, (*pharmacol*)

Sperber, N. *et al.*, *J.A.C.S.*, 1949, **71**, 887, (*synth*)

Cany, J. *et al.*, *Therapie*, 1960, **15**, 159, (*pharmacol*)

Sjoqvist, F. *et al.*, *Clin. Pharmacol. Ther. (St. Louis)*, 1967, **8**, 48, (*pharmacol*)

Ger. Pat., 1980, 2 906 239; *CA*, **94**, 47149, (*resoln*)

Haley, T.J., *Dangerous Prop. Ind. Mater. Rep.*, 1982, **2**, 17, (*rev*)

Rao, P.N. *et al.*, *J. Labelled Compd. Radiopharm.*, 1986, **23**, 527, (*synth*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., *Akademie-Verlag*, 1987, 4483, (*synonyms*)

Jackson, C.D. *et al.*, *Fundam. Appl. Toxicol.*, 1988, **10**, 243; 254, (*tox*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 938

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, BAV350; DYE500; PGE775