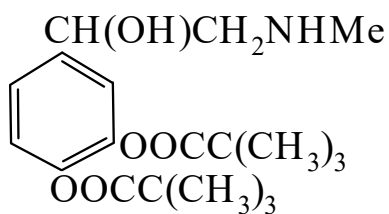




>>Entry Name: **Dipivefrin**, USAN

Synonym(s): 4-[1-Hydroxy-2-(methylamino)ethyl]-1,2-phenylene 2,2-dimethylpropanoate, 9Cl. **Dipivefrine**, BAN, INN. Epinephrine dipivalate. Pro-Epinephrine. Adrenaline dipivalate. Many other names



Related CAS Registry Numbers(s): 64019-93-8

Type of Compound Code(s): XA0111 XA1100

Molecular Formula: C₁₉H₂₉NO₅

Molecular Weight: 351.442

Accurate Mass: 351.204574

Percentage Composition: C 64.94%; H 8.32%; N 3.99%; O 22.76%

Use/Importance: Ophthalmic adrenergic, antiasthmatic agent

Calculated Log P Data: Log P 1.37 (calc)

>>Variant: (±)-form

CAS Registry Number: 52365-63-6

Molecular Formula: C₁₉H₂₉NO₅

Molecular Weight: 351.442

Accurate Mass: 351.204574

Percentage Composition: C 64.94%; H 8.32%; N 3.99%; O 22.76%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 146-147°

>>Derivative: Hydrochloride

Synonym(s): **Dipivefrin hydrochloride**, USAN. Propine. Vistapine. Diopine. Thilodrin. Glaucothil

CAS Registry Number: 64019-93-8

Melting Point: Mp 158-159°

Hazard & Toxicity: LD₅₀ (rat, orl) 183 mg/kg. Exp. reprod. effects

References:

Ger. Pat., 1974, 2 343 657; *CA*, **80**, 145839s, (*synth, pharmacol*)

Koch, H., *Drugs of Today (Barcelona)*, 1979, **15**, 537, (*rev, pharmacol*)

Goldberg, I. *et al.*, *Aust. J. Ophthalmol.*, 1980, **8**, 147, (*rev*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., *Akademie-Verlag*, 1987, 5479, (*synonyms*)

Wall, G.M. *et al.*, *Anal. Profiles Drug Subst.*, 1993, **22**, 229, (*rev*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1242

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, DWP559