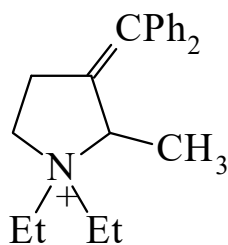




>>Entry Name: Prifinium(1+)

Synonym(s): 3-(Diphenylmethylene)-1,1-diethyl-2-methylpyrrolidinium, 9CI. 3-Benzhydrylidene-1,1-diethyl-2-methylpyrrolidinium



CAS Registry Number: 10236-81-4

Molecular Formula: C₂₂H₂₈N⁽⁺⁾

Molecular Weight: 306.47

Accurate Mass: 306.222174

Percentage Composition: C 86.22%; H 9.21%; N 4.57%

>>Derivative: Bromide

Synonym(s): Prifinium bromide, INN, JAN. Anespas F. Dornal. Kosmium. Padrin. PDB. Prifinial. Riabal. Spanomid

CAS Registry Number: 4630-95-9

Use/Importance: Antimuscarinic agent, antispasmodic. Used to treat irritable bowel syndrome

Physical Description: Cryst.

Melting Point: Mp 216-218°

Boiling Point: Bp_{0.15} 183-185°

Hazard & Toxicity: LD₅₀ (rat, orl) 1090 mg/kg. LD₅₀ (rat, ipr) 46 mg/kg. Exp. fetotoxic and reprod. effects

References:

Japan. Pat., 1965, Sadao Oki, 65 17 015; CA, **63**, 18034b, (synth)

Japan. Pat., 1965, Sadao Oki, 65 22 462; CA, **64**, 3489a, (synth)

Nakai, T. et al., *Arzneim.-Forsch.*, 1970, **20**, 237; 1112, (metab, pharmacol)

Tokuma, Y., *J. Chromatogr., B: Biomed. Appl.*, 1982, **231**, 129, (hplc)

Subissi, A. et al., *Eur. J. Pharmacol.*, 1983, **96**, 295, (pharmacol)

Noguchi, H. et al., *Int. J. Clin. Pharmacol., Ther. Toxicol.*, 1983, **21**, 213; 1984, **22**, 333, (pharmacokinet, pharmacol)

Sasaki, D. et al., *Clin. Ther.*, 1985, **7**, 190; 512, (use)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 431

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PAB750