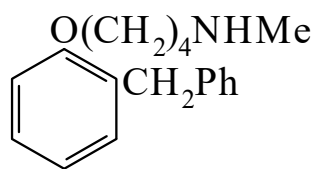




>>Entry Name: Bifemelane, INN

Synonym(s): *N*-Methyl-4-[2-(phenylmethyl)phenoxy]-1-butanamine, 9Cl. 2-Benzylphenyl 4-(methylamino)butyl ether. Celeport. Alnert



CAS Registry Number: 90293-01-9

Molecular Formula: C₁₈H₂₃NO

Molecular Weight: 269.386

Accurate Mass: 269.177964

Percentage Composition: C 80.26%; H 8.61%; N 5.20%; O 5.94%

Use/Importance: Central cholinergic agent. Nootropic; used in the treatment of senile dementia. Exp. antidepressant activity. Protects CA1 neurons following transient cerebral ischaemia

Development Status: Launched 1987

Calculated Log P Data: Log P 3.97 (calc)

>>Derivative: Hydrochloride

Synonym(s): Bifemelane hydrochloride, JAN. E 687. MCI 2016

CAS Registry Number: 62232-46-6

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 117-121°

Hazard & Toxicity: LD₅₀ (rat, orl) 1080 mg/kg. LD₅₀ (rat, ipr) 130 mg/kg

References:

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Kikumoto, R. *et al.*, *J. Med. Chem.*, 1981, **24**, 145, (*synth, pharmacol*)
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Maeda, K. *et al.*, *Eur. J. Pharmacol.*, 1993, **233**, 227, (*pharmacol*)
Dill, D.N. *et al.*, *J. Chromatogr.*, 1993, **613**, 150, (*gc-ms*)
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