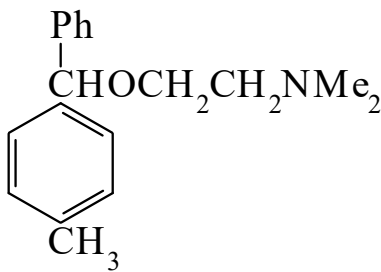




>>Entry Name: *p*-Methyldiphenhydramine

Synonym(s): *N,N*-Dimethyl-2-[(4-methylphenyl)phenylmethoxy]ethanamine, 9Cl. *N,N*-Dimethyl-2-[(*p*-methyl- α -phenylbenzyl)oxy]ethylamine. 2-Dimethylaminoethyl 4-methylbenzhydryl ether. Neo-Benodine. Toladryl. AH 853. BS 556



CAS Registry Number: 19804-27-4

Related CAS Registry Numbers(s): 4024-34-4 33431-08-2

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: Histamine H₁-receptor antagonist. Shows some antimuscarinic activity

>>Variant: (+)-form

CAS Registry Number: 15832-68-5

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%

Other Data: More pharmacol. active isomer

>>Derivative: Hydrochloride

CAS Registry Number: 24218-13-1

Melting Point: Mp 148-150°

Optical Rotation: [α]_D +13 (EtOH)

>>Variant: (±)-form

CAS Registry Number: 33431-07-1

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%

Boiling Point: Bp_{0.1} 143°

>>Derivative: Hydrochloride

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 150-152°

Hazard & Toxicity: LD₅₀ (mus, orl) 350 mg/kg. LD₅₀ (mus, ipr) 150 mg/kg. LD₅₀ (mus, ivn) 45 mg/kg

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Ensor, C.R. *et al.*, *J. Pharmacol. Exp. Ther.*, 1954, **112**, 318, (*tox*)
Muraoka, M. *et al.*, *Chem. Pharm. Bull.*, 1960, **8**, 860, (*synth*)
Harms, A.F. *et al.*, *J. Med. Chem.*, 1960, **2**, 57, (*synth*)
Van der Stelt, C. *et al.*, *Arzneim.-Forsch.*, 1964, **14**, 964; 1969, **19**, 2010, (*tox, resoln*)
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