>>**Entry Name: Diphenhydramine,** BAN, INN
Synonym(s): 2-(Diphenylmethoxy)-*N*,*N*-dimethylethanamine, 9CI. 2-(Diphenylmethoxy)-*N*,*N*-dimethylethylamine, 8CI. Benzhydryl 2-dimethylaminoethyl ether. 2-Dimethylaminoethyl α-phenylbenzyl ether. Benzhydramine. Many other names

CAS Registry Number: 58-73-1
Related CAS Registry Numbers(s): 13168-00-8 15350-99-9
Type of Compound Code(s): XA4510
$Ph_2CHOCH_2CH_2NMe_2$

Molecular Formula: $C_{17}H_{21}NO$
Molecular Weight: 255.359
Accurate Mass: 255.162314
Percentage Composition: C 79.96%; H 8.29%; N 5.49%; O 6.27%
Use/Importance: Histamine H_1-receptor antagonist
Physical Description: Oil
Boiling Point: Bp_3 163-167°. Bp_2 150-165°
Calculated Log P Data: Log P 3.36 (calc)
Other Data: Component of Mandrax
Hazard & Toxicity: LD_{50} (rat, orl) 390 mg/kg. Exp. reprod. effects

>>**Derivative:** Hydrochloride
Synonym(s): Diphenhydramine hydrochloride, USAN**.** Histex. Bendylate. Eldadryl. Benadryl. Dimedrol

CAS Registry Number: 147-24-0
Type of Compound Code(s): PA4750 PS8300
Use/Importance: Component of numerous proprietary preparations. Used as 2% aq. soln. in photometric detn. of Ti (ε 82000)
Physical Description: Cryst. ($EtOH/Et_2O$)
Melting Point: Mp 161-162°. Mp 166-170°
Solubility: Sol. H_2O
Hazard & Toxicity: Symptoms from overdosage (e.g. delirium, hallucinations) have been seen following topical use in children. LD_{50} (rat, orl) 500 mg/kg. Exp. reprod. and teratogenic effects

Aldrich: 28566-8
Rare Chemicals Library: S40347-4
Sigma: D7774

>>**Derivative:** Citrate
Synonym(s): Diphenhydramine citrate, USAN

CAS Registry Number: 88637-37-0

>>**Derivative:** 8-Chlorotheophylline salt (1:1)
Synonym(s): Diphenhydramine teoclate. **Dimenhydrinate,** BAN, INN**.** Dramamine. Eldodram. Gravol. Many other names

CAS Registry Number: 523-87-5
Type of Compound Code(s): XA1500
Molecular Formula: $C_{24}H_{28}ClN_5O_3$
Molecular Weight: 469.97
Accurate Mass: 469.188067
Percentage Composition: C 61.34%; H 6.00%; Cl 7.54%; N 14.90%; O 10.21%
Use/Importance: Antinauseant
Melting Point: Mp 102-107°
Solubility: Sl. sol. H_2O
Hazard & Toxicity: LD_{50} (rat, orl) 1320 mg/kg

Sigma: D2396