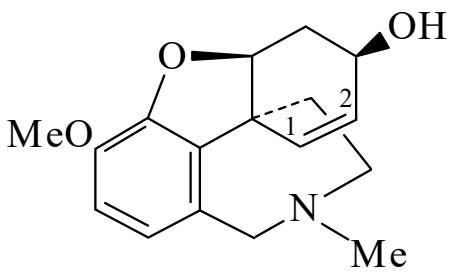
>>**Entry Name: Galanthamine,** 9CI

Synonym(s): 4*a*,5,9,10,11,12-Hexahydro-3-methoxy-11-methyl-6*H*-benzofuro[3*a*,3,2-*ef*][2]benzazepin-6-ol. **Galantamine,** INN. Jilkon. karantonin. Lycoremine. Lycorimine. Nevalina. Nivalin. Reminyl. NIH 7380



(_)-*form*

Molecular Formula: $C_{17}H_{21}NO_3$
Molecular Weight: 287.358
Accurate Mass: 287.152144
Percentage Composition: C 71.06%; H 7.37%; N 4.87%; O 16.70%
Calculated Log P Data: Log P 1.11 (uncertain value) (calc)

>>**Variant:** (+)-form

Molecular Formula: $C_{17}H_{21}NO_3$
Molecular Weight: 287.358
Accurate Mass: 287.152144
Percentage Composition: C 71.06%; H 7.37%; N 4.87%; O 16.70%
Source/Synthesis: Synthetic
Melting Point: Mp 133-135°
Optical Rotation: $[\alpha]_D^{18}$+126 (c, 0.083 in EtOH)

>>**Derivative:** 1,2-Dihydro, *N*-de-Me
Synonym(s): Demethyldihydrogalanthamine

Molecular Formula: $C_{16}H_{21}NO_3$
Molecular Weight: 275.347
Accurate Mass: 275.152144
Percentage Composition: C 69.79%; H 7.69%; N 5.09%; O 17.43%
Biological Source: Component of the quasi-racemic alkaloid Narcissamine GPS93-C
Melting Point: Mp 77-87° (hydrate). Mp 134° (anhyd.)

>>**Derivative:** 1,2-Dihydro, *N*-de-Me, *O*,*N*-di-Ac

Physical Description: Cryst. (EtOH)
Melting Point: Mp 177-179°

>>**Variant:** (–)-form

CAS Registry Number: 357-70-0

Molecular Formula: $C_{17}H_{21}NO_3$
Molecular Weight: 287.358
Accurate Mass: 287.152144
Percentage Composition: C 71.06%; H 7.37%; N 4.87%; O 16.70%
Biological Source: Alkaloid from *Galanthus voronovii* and a very large number of other spp. in the Amaryllidaceae
Biological Use/Importance: Cholinesterase inhibitor. Analgesic. Investigated for treatment of Alzheimer's disease
Development Status: In clinical use in Russia, approved by FDA (2001)
Melting Point: Mp 127-129° (133-134°)
Optical Rotation: $[\alpha]_D^{22}$–122 (c, 0.60 in EtOH) (–132)
pKa Value: pK_a 8.32
Calculated Log P Data: Log P 1.11 (uncertain value) (calc)
Other Data: Pharmacol. active isomer

>>**Derivative:** Hydrochloride

Melting Point: Mp 254-255 dec.°