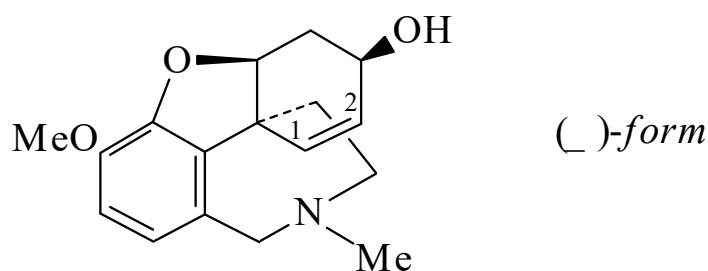




>>>Entry Name: Galanthamine, 9CI

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



Molecular Formula: C₁₇H₂₁NO₃

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: C₁₇H₂₁NO₃

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: [α]_D¹⁸ +126 (c, 0.083 in EtOH)

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

Synonym(s): Demethyldihydrogalanthamine

Molecular Formula: C₁₆H₂₁NO₃

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: C₁₇H₂₁NO₃

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: [α]_D²² –122 (c, 0.60 in EtOH) (–132)

pKa Value: p*K*_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.°