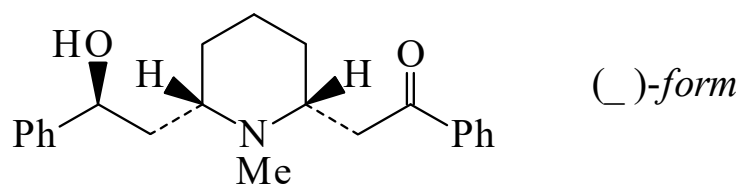




>>Entry Name: Lobeline, INN

Synonym(s): 2-[6-(2-Hydroxy-2-phenylethyl)-1-methyl-2-piperidiny]-1-phenylethanone, 9Cl. 8,10-Diphenyllobelionol. α -Lobeline. Inflatine. Lobelidine. Many other names



Related CAS Registry Numbers(s): 10122-32-4

Molecular Formula: $C_{22}H_{27}NO_2$

Molecular Weight: 337.461

Accurate Mass: 337.204179

Percentage Composition: C 78.30%; H 8.06%; N 4.15%; O 9.48%

Biological Use/Importance: Antiasthmatic, antibronchitic, analeptic agent. Diuretic, respiratory stimulant. Possesses expectorant props. Used in antismoking preparations

Calculated Log P Data: Log P 3.74 (calc)

>>Variant: (-)-form

CAS Registry Number: 90-69-7

Molecular Formula: $C_{22}H_{27}NO_2$

Molecular Weight: 337.461

Accurate Mass: 337.204179

Percentage Composition: C 78.30%; H 8.06%; N 4.15%; O 9.48%

Campanula medium (Campanulaceae)

Use/Importance: Used as a 0.1M aq. soln. for photometric detn. of Mo ($\lambda_{\max}$ 465 nm, ϵ 13800)

Physical Description: Needles (EtOH)

Melting Point: Mp 130-131°

Optical Rotation: $[\alpha]_D^{15} -42.85$ (EtOH)

Calculated Log P Data: Log P 3.74 (calc)

Other Data: Oxidn. gives the symmetrical Lobelanine which is *meso*-

Hazard & Toxicity: Adverse gastrointestinal and CNS effects by ingestion. LD₅₀ (mus, ipr) 107 mg/kg

Sigma: L7149

>>Derivative: Hydrochloride

Synonym(s): Zoolobelin. Lobran

CAS Registry Number: 134-63-4

Physical Description: Needles (EtOH)

Melting Point: Mp 182°

Hazard & Toxicity: LD₅₀ (mus, ipr) 40 mg/kg

Aldrich: 14187-9

Fluka: 62630

Sigma: L4376

>>Derivative: Sulfate (1:2)

CAS Registry Number: 134-64-5

Physical Description: Cryst. (EtOH)

Optical Rotation: $[\alpha]_D^{25} -25$ (c, 0.2 in $CHCl_3$)

Sigma: L4501

>>Derivative: Benzoyl

Molecular Formula: $C_{29}H_{31}NO_3$

Molecular Weight: 441.569

Accurate Mass: 441.230394

Percentage Composition: C 78.88%; H 7.08%; N 3.17%; O 10.87%

Melting Point: Mp 155-157°

>>Variant: ($\pm$)-form