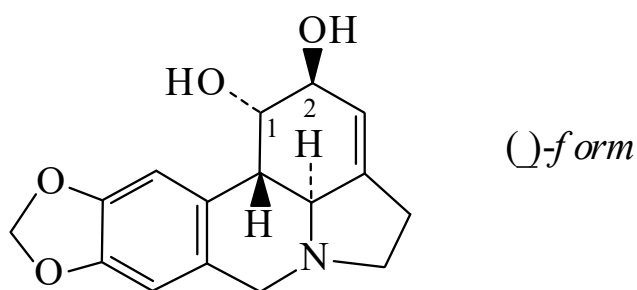




>>Entry Name: Lycorine

Synonym(s): Narcissine†. Galanthidine



Molecular Formula: C₁₆H₁₇NO₄

Molecular Weight: 287.315

Accurate Mass: 287.115759

Percentage Composition: C 66.89%; H 5.96%; N 4.88%; O 22.27%

>>Variant: (+)-form

Molecular Formula: C₁₆H₁₇NO₄

Molecular Weight: 287.315

Accurate Mass: 287.115759

Percentage Composition: C 66.89%; H 5.96%; N 4.88%; O 22.27%

Source/Synthesis: Obt. by hydrol. of Poetaminine

Melting Point: Mp 262-264 dec.°

>>Derivative: O¹-Ac

Synonym(s): Poetaminine

CAS Registry Number: 73543-66-5

Molecular Formula: C₁₈H₁₉NO₅

Molecular Weight: 329.352

Accurate Mass: 329.126324

Percentage Composition: C 65.64%; H 5.81%; N 4.25%; O 24.29%

Biological Source: Alkaloid from the bulbs of *Narcissus poeticus* var. *ornatus* (Amaryllidaceae)

Physical Description: Needles (MeOH)

Melting Point: Mp 221-223°

Optical Rotation: [α]_D²⁰ +100 (c, 0.2 in EtOH)

>>Derivative: Di-Ac

Molecular Formula: C₂₀H₂₁NO₆

Molecular Weight: 371.389

Accurate Mass: 371.136889

Percentage Composition: C 64.68%; H 5.70%; N 3.77%; O 25.85%

Melting Point: Mp 215-217°

>>Variant: (–)-form

CAS Registry Number: 476-28-8

Molecular Formula: C₁₆H₁₇NO₄

Molecular Weight: 287.315

Accurate Mass: 287.115759

Percentage Composition: C 66.89%; H 5.96%; N 4.88%; O 22.27%

Biological Source: Alkaloid of *Lycoris radiata* and of a very large number of spp. in the Amaryllidaceae. The most widespread of the Amaryllidaceae alkaloids

Use/Importance: Causes scorbutic symptoms in exptl. animals. Respiratory stimulant. Plant growth inhibitor by inhibition of protein synth. Shows mod. antitumour activity, prob. by clastogenicity. Antiviral agent, weak protozoicide

Melting Point: Mp 280-281°

Optical Rotation: [α]_D²⁶ –120 (EtOH)

UV: [neutral] $\lambda_{\max}$ 290 () (EtOH) (Berdy)

Hazard & Toxicity: Highly toxic, freq. cause of accidental human poisoning by *Narcissus* spp. LD₅₀ (dog, ivn) 41 mg/kg

>>Derivative: Picrate

Melting Point: Mp 198-200°