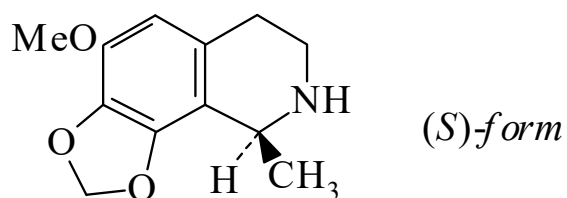




>> **Name:** Anhalonine

Synonym(s): 6,7,8,9-Tetrahydro-4-methoxy-9-methyl-1,3-dioxolo[4,5-*h*]isoquinoline, 9Cl. 1,2,3,4-Tetrahydro-6-methoxy-1-methyl-7,8-methylenedioxyisoquinoline



Molecular Formula: C₁₂H₁₅NO₃

Molecular Weight: 221.255

Accurate Mass: 221.105194

Percentage Composition: C 65.14%; H 6.83%; N 6.33%; O 21.69%

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

Molecular Formula: C₁₂H₁₅NO₃

Molecular Weight: 221.255

Accurate Mass: 221.105194

Percentage Composition: C 65.14%; H 6.83%; N 6.33%; O 21.69%

Source/Synthesis: Obt. by resoln.

Melting Point: Mp 84.5-85.5°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +56.7$ (CHCl₃)

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

CAS Registry Number: 519-04-0

Molecular Formula: C₁₂H₁₅NO₃

Molecular Weight: 221.255

Accurate Mass: 221.105194

Percentage Composition: C 65.14%; H 6.83%; N 6.33%; O 21.69%

Biological Source: Alkaloid from *Anhalonium lewinii* (*Lophophora williamsii*), *Gymnocalycium lecanum* and *Trichocereus terscheckii* (Cactaceae). Also obt. by resoln. and by synthesis

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 85-86°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -56.3$ (CHCl₃). $[\alpha]_{\text{D}}^{25} -62.9$ (c, 1 in MeOH). $[\alpha]_{\text{D}}^{25} -51$ (c, 1 in 1M HCl)

>>**Derivative:** Hydrochloride

Melting Point: Mp 258-259°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -40$ (c, 1 in 50% EtOH)

>>**Derivative:** Hydrobromide

Physical Description: Cryst. (H₂O)

Melting Point: Mp 270-271°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -30$ (c, 1 in H₂O)

>>**Derivative:** *N*-Me

Synonym(s): **Lophophorine.** 6,7,8,9-Tetrahydro-4-methoxy-8,9-dimethyl-1,3-dioxolo[4,5-*h*]isoquinoline, 9Cl. 1,2,3,4-Tetrahydro-6-methoxy-1,2-dimethyl-7,8-methylenedioxyisoquinoline

CAS Registry Number: 17627-78-0

Molecular Formula: C₁₃H₁₇NO₃

Molecular Weight: 235.282

Accurate Mass: 235.120844

Percentage Composition: C 66.36%; H 7.28%; N 5.95%; O 20.40%

Biological Source: Alkaloid from *Gymnocalycium gibbosum*, *Gymnocalycium lecanum*, *Lophophora diffusa* and *Lophophora williamsii* (Cactaceae)

Use/Importance: Respiratory stimulant, convulsive agent

Physical Description: Oil

Boiling Point: Bp_{0.05} 140-145°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -47.3$ (CHCl₃)

Hazard & Toxicity: Toxic, LD₅₀ 15-20 mg/kg (i.v., rabbit)