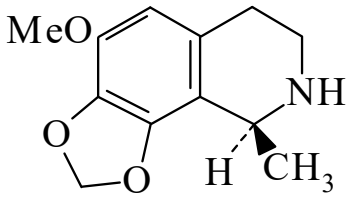
>> **Name: Anhalonine**

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



(*S*)-*form*

Molecular Formula: $C_{12}H_{15}NO_3$
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: $C_{12}H_{15}NO_3$
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: $[\alpha]_D^{25}$+56.7 ($CHCl_3$)

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

CAS Registry Number: 519-04-0

Molecular Formula: $C_{12}H_{15}NO_3$
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. (Et_2O/petrol)
Melting Point: Mp 85-86°
Optical Rotation: $[\alpha]_D^{25}$–56.3 ($CHCl_3$). $[\alpha]_D^{25}$–62.9 (c, 1 in MeOH). $[\alpha]_D^{25}$–51 (c, 1 in 1M HCl)

>>**Derivative:** Hydrochloride

Melting Point: Mp 258-259°
Optical Rotation: $[\alpha]_D^{25}$–40 (c, 1 in 50% EtOH)

>>**Derivative:** Hydrobromide

Physical Description: Cryst. (H_2O)
Melting Point: Mp 270-271°
Optical Rotation: $[\alpha]_D^{25}$–30 (c, 1 in H_2O)

>>**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: $C_{13}H_{17}NO_3$
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: $[\alpha]_D^{25}$–47.3 ($CHCl_3$)
Hazard & Toxicity: Toxic, LD_{50} 15-20 mg/kg (i.v., rabbit)