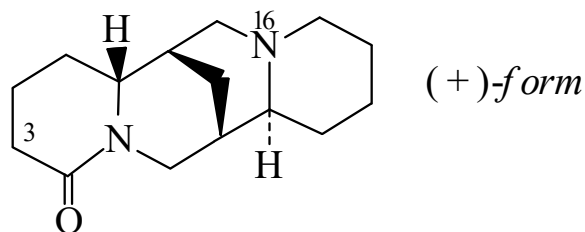




>>Entry Name: **Lupanine**

Synonym(s): 2-Oxo-11 α -sparteine. Dilupanine. Trilupine. Hydrorhombinine. Tetrahydranagyrene



Molecular Formula: C₁₅H₂₄N₂O

Molecular Weight: 248.367

Accurate Mass: 248.188863

Percentage Composition: C 72.54%; H 9.74%; N 11.28%; O 6.44%

Hydrorhombinine and Tetrahydroanagyrene were the (–)-form

>>Variant: (+)-form

CAS Registry Number: 550-90-3

Molecular Formula: C₁₅H₂₄N₂O

Molecular Weight: 248.367

Accurate Mass: 248.188863

Percentage Composition: C 72.54%; H 9.74%; N 11.28%; O 6.44%

Biological Source: Alkaloid from *Cytisus scoparius* and several other *Cytisus* spp., *Lupinus* spp.; also in *Leontice* spp., *Cadia purpurea*, *Ammopiptanthus mongolicus*, *Genista* spp., *Templetonia* spp., *Thermopsis chinensis* (Leguminosae, Leonticeae)

Use/Importance: Toxic cause (together with other alkaloids including the (–)- and (±)-forms) of lupinosis in livestock fed on *Lupinus* spp.

Melting Point: Mp 40°

Boiling Point: Bp_{0.08} 185-186°

Optical Rotation: [α]_D +61.4 (Me₂CO)

Hazard & Toxicity: LD₅₀ (rat, orl) 1440 mg/kg

>>Derivative: Hydrochloride

Melting Point: Mp 269-271°

>>Derivative: Hydrochloride (1:2)

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 162-163°

>>Derivative: Picrate

Melting Point: Mp 185°

>>Derivative: N¹⁶-Oxide

Synonym(s): Lupanine N-oxide

CAS Registry Number: 3019-47-4

Molecular Formula: C₁₅H₂₄N₂O₂

Molecular Weight: 264.367

Accurate Mass: 264.183778

Percentage Composition: C 68.15%; H 9.15%; N 10.60%; O 12.10%

Physical Description: Hygroscopic needles (C₆H₆)

Melting Point: Mp 58°

Optical Rotation: [α]_D²⁴ +65.5 (EtOH)

>>Variant: (–)-form

CAS Registry Number: 486-88-4