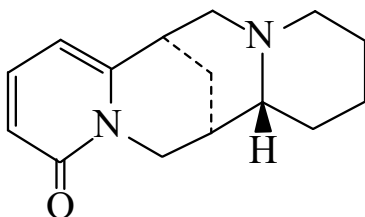




>> **Name:** Anagyrine

Synonym(s): 7,7a,8,9,10,11,13,14-Octahydro-7,14-methano-4*H*,6*H*-dipyrido[1,2-*a*;1',2'-*e*][1,5]diazocin-4-one, 9Cl. Rhombinine. Monolupine. Alkaloid III



Absolute
configuration

CAS Registry Number: 486-89-5

Molecular Formula: C₁₅H₂₀N₂O

Molecular Weight: 244.336

Accurate Mass: 244.157563

Percentage Composition: C 73.74%; H 8.25%; N 11.47%; O 6.55%

Biological Source: Alkaloid from *Anagyris foetida*, several *Cytisus*, *Genista*, *Lupinus*, *Sophora* and *Ammodendron* spp. Also isol. from *Ulex europaeus* and *Ulex nanus*, *Templetonia retusa* and *Thermopsis chinensis* (Leguminosae)

Use/Importance: Antiarrhythmic, diuretic, purgative agent. Cardiotonic agent inducing tachycardia. Major toxic alkaloid responsible for "crooked calf disease" caused by leguminous plants

Physical Description: Noncryst.

Optical Rotation: [α]_D -165 (EtOH)

Calculated Log P Data: Log P 0.82 (calc)

Hazard & Toxicity: Exp. teratogen

>> **Derivative:** Hydrochloride

Melting Point: Mp 295-297°

>> **Derivative:** Methiodide

Melting Point: Mp 264 dec.°

>> **Derivative:** Hydroxy

Synonym(s): Hydroxyanagyrine

CAS Registry Number: 67984-05-8

Molecular Formula: C₁₅H₂₀N₂O₂

Molecular Weight: 260.335

Accurate Mass: 260.152478

Percentage Composition: C 69.21%; H 7.74%; N 10.76%; O 12.29%

Biological Source: Alkaloid from *Anagyris foetida* (Leguminosae)

Physical Description: No phys. props. reported

Other Data: Substd. in the D-ring (ring remote from the carbonyl function); posn. of subn. unknown

>> **Derivative:** 11-Epimer

>> **Variant:** (±)-form

CAS Registry Number: 34389-11-2

Molecular Formula: C₁₅H₂₀N₂O

Molecular Weight: 244.336

Accurate Mass: 244.157563

Percentage Composition: C 73.74%; H 8.25%; N 11.47%; O 6.55%

Physical Description: Noncryst.

References: