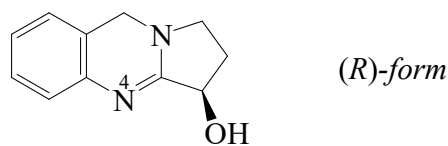




>>Entry Name: Peganine

Synonym(s): 1,2,3,9-Tetrahydropyrrolo[2,1-*b*]quinazolin-3-ol, 9Cl. 1,2,3,9-Tetrahydro-3-hydroxypyrrolo[2,1-*b*]quinoline. Vasicine. **Linarine**‡



CAS Registry Number: 50591-64-5

Related CAS Registry Numbers(s): 7174-27-8 79378-22-6

Molecular Formula: C₁₁H₁₂N₂O

Molecular Weight: 188.229

Accurate Mass: 188.094963

Percentage Composition: C 70.19%; H 6.43%; N 14.88%; O 8.50%

Use/Importance: Bronchodilator and respiratory stimulant. Shows antihypertensive props. Uterine stimulant and abortifacient. Expectorant

>>Variant: (*R*)-form

Molecular Formula: C₁₁H₁₂N₂O

Molecular Weight: 188.229

Accurate Mass: 188.094963

Percentage Composition: C 70.19%; H 6.43%; N 14.88%; O 8.50%

Biological Source: Alkaloid from *Galega officinalis* (Leguminosae)

Melting Point: Mp 203-205 dec.°

Optical Rotation: $[\alpha]_D^{24} +203$ (+188, +163)

>>Variant: (*S*)-form

CAS Registry Number: 6159-55-3

Molecular Formula: C₁₁H₁₂N₂O

Molecular Weight: 188.229

Accurate Mass: 188.094963

Percentage Composition: C 70.19%; H 6.43%; N 14.88%; O 8.50%

Peganum harmala (Acanthaceae, Malvaceae, Cruciferae, Zygophyllaceae)

Melting Point: Mp 211-212°

Optical Rotation: $[\alpha]_D^{14} -254$ (c, 2.44 in CHCl₃)

Other Data: Pharmacol. active isomer. Racemises slowly in acid or upon repeated subl.

Hazard & Toxicity: LD₅₀ (rat, orl) 640 mg/kg. Exp. reprod. effects

>>Derivative: Hydrochloride

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 208° (anhyd.)

>>Derivative: Picrate

Melting Point: Mp 199 dec.°

>>Derivative: 7-Hydroxy

>>Variant: (±)-form

CAS Registry Number: 6159-56-4

Molecular Formula: C₁₁H₁₂N₂O

Molecular Weight: 188.229

Accurate Mass: 188.094963

Percentage Composition: C 70.19%; H 6.43%; N 14.88%; O 8.50%

Biological Source: Major alkaloid of *Anisotes sessiliflorus*. Also present in the above-ground parts of *Peganum harmala* and the foliage of *Peganum nigellastrum* (Acanthaceae, Zygophyllaceae)