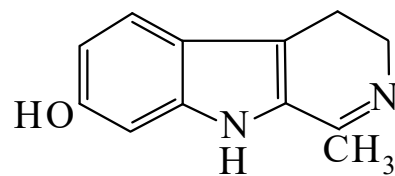




>>Entry Name: **Harmalol**, 8Cl

Synonym(s): 4,9-Dihydro-1-methyl-3*H*-pyrido[3,4-*b*]indol-7-ol, 9Cl. 3,4-Dihydro-7-hydroxy-1-methyl-β-carboline



CAS Registry Number: 525-57-5

Related CAS Registry Numbers(s): 6028-07-5

Molecular Formula: C₁₂H₁₂N₂O

Molecular Weight: 200.24

Accurate Mass: 200.094963

Percentage Composition: C 71.98%; H 6.04%; N 13.99%; O 7.99%

Biological Source: Alkaloid from *Peganum harmala*, *Passiflora incarnata*, *Amsonia tabernaemontana*, *Apocynum cannabinum* and *Hippophae rhamnoides* (Zygophyllaceae, Passifloraceae, Apocynaceae, Eleagnaceae)

Use/Importance: Traditional dye for wool

Biological Use/Importance: CNS stimulant

Physical Description: Fine orange-yellow or red needles + 3H₂O (EtOH aq.)

Melting Point: Mp 100-105°

Solubility: Sol. Me₂CO, CHCl₃; poorly sol. H₂O

Calculated Log P Data: Log P 1.31 (uncertain value) (calc)

UV: [neutral] λ_{max} 218 (); 260 (); 376 () (MeOH) (Berdy)

Other Data: Readily oxid. in air

Hazard & Toxicity: LD₅₀ (mus, ipr) 175 mg/kg

>>Derivative: Hydrochloride

CAS Registry Number: 6028-00-8

Physical Description: Green cryst. (EtOH), red needles (EtOH)

Melting Point: Mp 264-267 dec.°

>>Derivative: Me ether

Synonym(s): 4,9-Dihydro-7-methoxy-1-methyl-3*H*-pyrido[3,4-*b*]indole. 3,4-Dihydro-7-methoxy-1-methyl-β-carboline. **Harmaline**. Dihydroharmine. Harmidine

CAS Registry Number: 304-21-2

Molecular Formula: C₁₃H₁₄N₂O

Molecular Weight: 214.266

Accurate Mass: 214.110613

Percentage Composition: C 72.87%; H 6.59%; N 13.07%; O 7.47%

Biological Source: Alkaloid from *Peganum harmala*, *Passiflora incarnata*, *Banisteria caapi* and some *Banisteriopsis* spp. (Zygophyllaceae, Passifloraceae, Malpighiaceae)

Use/Importance: CNS stimulant. Possesses antiparkinsonian props. Component of a S. American hallucinogenic drink

Melting Point: Mp 250-251° (227-229°)

Solubility: Sol. Et₂O

Calculated Log P Data: Log P 1.91 (uncertain value) (calc)

UV: [neutral] λ_{max} 218 (ε 17700); 260 (ε 7950); 376 (ε 10050) (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (rat, scu) 120 mg/kg

Aldrich: 28603-6

Fluka: 51330

Sigma: H2256

>>Derivative: Me ether, hydrochloride

CAS Registry Number: 6027-98-1

Melting Point: Mp 212°. Mp 239-240° (dihydrate)

Aldrich: H10-9

Fluka: 51340

Sigma: H1392