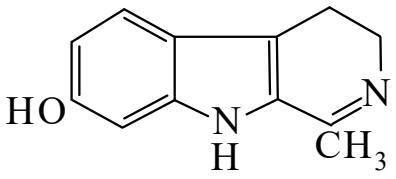
>>**Entry Name: Harmalol,** 8Cl

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: $C_{12}H_{12}N_2O$
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 + $3H_2O$ (EtOH aq.)
Melting Point: Mp 100-105°
Solubility: Sol. Me_2CO, $CHCl_3$; poorly sol. H_2O
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: LD_{50} (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: $C_{13}H_{14}N_2O$
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, Malphigiaceae)
Use/Importance: CNS stimulant. Possesses antiparkinsonian props. Component of a S. American hallucinogenic drink
Melting Point: Mp 250-251° (227-229°)
Solubility: Sol. Et_2O
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: LD_{50} (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