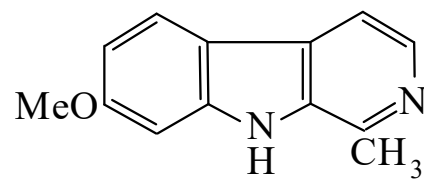




>>Entry Name: 7-Methoxy-1-methyl-β-carboline

Synonym(s): 7-Methoxy-1-methyl-9H-pyrido[3,4-b]indole, 9Cl. **Harmine**. Telepathine. Yageine. Banisterine



CAS Registry Number: 442-51-3

Molecular Formula: C₁₃H₁₂N₂O

Molecular Weight: 212.251

Accurate Mass: 212.094963

Percentage Composition: C 73.57%; H 5.70%; N 13.20%; O 7.54%

Biological Source: Alkaloid from *Peganum harmala*, several *Banisteriopsis* spp., *Passiflora edulis* and several other spp. (Zygophyllaceae, Malphigiaceae, Passifloraceae)

Use/Importance: Antiparkinsonian agent. CNS stimulant. Used as an acid-base fluorescence indicator (pH 7.2-8.9, colour change blue → yellow). Component of a South American hallucinogenic drink

Physical Description: Cryst.

Melting Point: Mp 264-265° (257-259°)

pKa Value: pK_a 7.61 (20°)

Calculated Log P Data: Log P 3.12 (calc)

UV: [neutral] λ_{max} 210 (); 240 (); 300 (); 338 () (MeOH) (Berdy)

Hazard & Toxicity: Adverse gastrointestinal and CNS effects in humans by intramuscular route . LD₅₀ (mus, scu) 243 mg/kg ; BERDY HAZD : LD₅₀ (mus, ivn) 38 mg/kg

Aldrich: 28604-4

Fluka: 51400

Sigma: H5381

>>Derivative: Hydrochloride, dihydrate

CAS Registry Number: 343-27-1

Melting Point: Mp 268-270 dec.°. Mp 321° (anhyd.)

Aldrich: 12848-1

Sigma: H0625

>>Derivative: Picrate

Melting Point: Mp 249-250 dec.°

>>Derivative: N-Oxide

Synonym(s): Harmine N-oxide

CAS Registry Number: 57498-78-9

Molecular Formula: C₁₃H₁₂N₂O₂

Molecular Weight: 228.25

Accurate Mass: 228.089878

Percentage Composition: C 68.41%; H 5.30%; N 12.27%; O 14.02%

Biological Source: Alkaloid from *Banisteriopsis caapi* (Malphigiaceae)

Physical Description: Needles (MeOH)

Melting Point: Mp 226-227 dec.°

>>Derivative: 1-De-Me

Synonym(s): 7-Methoxy-9H-pyrido[3,4-b]indole, 9Cl. 7-Methoxy-β-carboline. **Norharmine**

CAS Registry Number: 6253-19-6

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 213-215°

Other Data: Sublimes