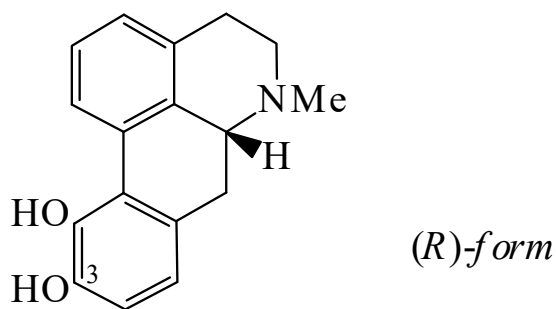




>>Entry Name: **Apomorphine**, BAN

Synonym(s): 5,6,6a,7-Tetrahydro-6-methyl-4*H*-dibenzo[*de,g*]quinoline-10,11-diol, 9Cl. 3,4-Dihydroxyaporphine



Related CAS Registry Numbers(s): 41035-30-7 41649-44-9 57559-68-9

Molecular Formula: C₁₇H₁₇NO₂

Molecular Weight: 267.327

Accurate Mass: 267.125929

Percentage Composition: C 76.38%; H 6.41%; N 5.24%; O 11.97%

Use/Importance: Powerful emetic, has been used to control Parkinsonism. No narcotic props. Dopamine agonist

UV: [neutral] λ_{max} 336 (); 399 () (MeOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) .6 mg/kg

>>Variant: (*R*)-form

CAS Registry Number: 58-00-4

Molecular Formula: C₁₇H₁₇NO₂

Molecular Weight: 267.327

Accurate Mass: 267.125929

Percentage Composition: C 76.38%; H 6.41%; N 5.24%; O 11.97%

Source/Synthesis: Obt. by acid treatment of Morphine [BCN23-S](#)

Physical Description: Cryst. + 1Et₂O (Et₂O under N₂). Loses Et₂O at 100°

Solubility: Sl. sol. H₂O

Other Data: Turns green and dec. in air. Dec at 195°

Hazard & Toxicity: LD₅₀ (mus, orl) 300 mg/kg. Exp. reprod. effects

>>Derivative: Hydrochloride

Synonym(s): **Apomorphine hydrochloride**, USAN

CAS Registry Number: 41372-20-7

Extra CAS Registry Numbers(s): 314-19-2

Physical Description: Cryst. or cryst. + ½ H₂O

Optical Rotation: [α]_D²⁵ -30.5 (H₂O)

Solubility: V. sol. H₂O

Hazard & Toxicity: Adverse systemic effects reported when used therapeutically (persistent vomiting, CNS and respiratory depression). LD₅₀ (mus, ipr) 247 mg/kg

Aldrich: 36394-4

Sigma: A4393

>>Derivative: Di-Ac

Molecular Formula: C₂₁H₂₁NO₄

Molecular Weight: 351.401

Accurate Mass: 351.147059

Percentage Composition: C 71.78%; H 6.02%; N 3.99%; O 18.21%

Physical Description: Needles (EtOAc/petrol)

Melting Point: Mp 127-128°

Optical Rotation: [α]_D²⁴ -88 (c, 1.12 in 0.1*M* HCl)

>>Derivative: *O*³-Me

Synonym(s): 4-Hydroxy-3-methoxyaporphine. Apocodeine

CAS Registry Number: 641-36-1

Molecular Formula: C₁₈H₁₉NO₂

Molecular Weight: 281.354

Accurate Mass: 281.141579

Percentage Composition: C 76.84%; H 6.81%; N 4.98%; O 11.37%

Source/Synthesis: Obt. by acid treatment of Codeine [HDV94-X](#)

Physical Description: Prisms (MeOH)

Melting Point: Mp 124° (dried)

Optical Rotation: [α]