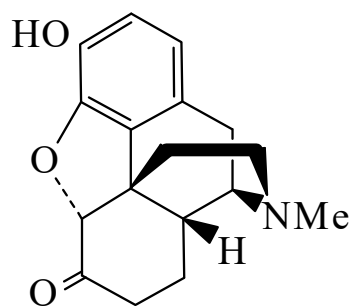




>>Entry Name: Hydromorphone, BAN, INN

Synonym(s): 4,5-Epoxy-3-hydroxy-17-methylmorphinan-6-one, 9Cl, 8Cl. 7,8-Dihydromorphin-6-one. Many other names



Absolute
configuration

CAS Registry Number: 466-99-9

Molecular Formula: $C_{17}H_{19}NO_3$

Molecular Weight: 285.342

Accurate Mass: 285.136494

Percentage Composition: C 71.56%; H 6.71%; N 4.91%; O 16.82%

Biological Use/Importance: Narcotic analgesic, more potent than morphine

Melting Point: Mp 266-267°

Optical Rotation: $[\alpha]_D^{25} -194$ (c, 0.98 in dioxan)

Calculated Log P Data: Log P 0.59 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, scu) 84 mg/kg

>>Derivative: Hydrochloride

Synonym(s): Hydromorphone hydrochloride, USAN. Dilaudid

CAS Registry Number: 71-68-1

Melting Point: Mp 305-315 dec.°

Optical Rotation: $[\alpha]_D^{25} -133$ (c, 1 in H₂O)

Hazard & Toxicity: LD₅₀ (mus, scu) 120 mg/kg. Exp. teratogenic effects

Sigma: H5136

>>Derivative: Me ether

Synonym(s): Hydrocodone, BAN, INN. Dihydrocodeinone. Lorcet. Vicodin. Vicoprofen. Lortab. Many other names

CAS Registry Number: 125-29-1

Molecular Formula: $C_{18}H_{21}NO_3$

Molecular Weight: 299.369

Accurate Mass: 299.152144

Percentage Composition: C 72.22%; H 7.07%; N 4.68%; O 16.03%

Biological Use/Importance: Opiate antiussive, drug of abuse

Physical Description: Prisms (EtOH)

Melting Point: Mp 198°

Calculated Log P Data: Log P 1.17 (uncertain value) (calc)

Other Data: Also used as compd. with sulfonated styrene-divinyl benzene copolymer (Hydrocodone polistirex, USAN) as an antitussive

Hazard & Toxicity: LD₅₀ (mus, scu) 86 mg/kg

>>Derivative: Me ether, hydrogen tartrate

Synonym(s): Hydrocodone bitartrate, USAN

CAS Registry Number: 143-71-5

Biological Use/Importance: Antitussive

Melting Point: Mp 146-148° (hydrate)

Other Data: Mp may be unreliable

Sigma: H4516

>>Derivative: Me ether, enol acetate

References: