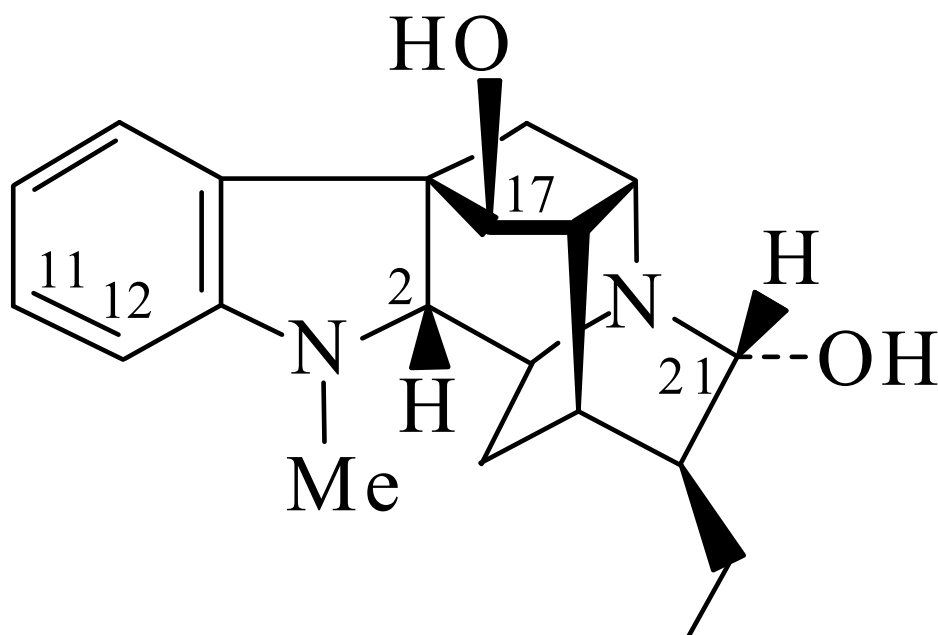




>>Entry Name: Ajmaline, BAN, JAN

Synonym(s): Ajmalan-17,21-diol, 9Cl. Ajmaline. Gilurytmal. Merabitol. Raugalline. Rauwolfine. Rytmalin. Tachmalin. Many other names



CAS Registry Number: 4360-12-7

Related CAS Registry Numbers(s): 31081-68-2 35080-11-6 110906-81-5

Molecular Formula: $C_{20}H_{26}N_2O_2$

Molecular Weight: 326.438

Accurate Mass: 326.199428

Percentage Composition: C 73.59%; H 8.03%; N 8.58%; O 9.80%

Biological Source: Alkaloid from *Rauwolfia serpentina* and most *Rauwolfia* spp., *Melodinus balansae* and *Tonduzia longifolia* (Apocynaceae)

Biological Use/Importance: Antiarrhythmic (Class Ia) drug which functions by inhibition of glucose uptake by heart tissue mitochondria. Platelet activating factor antagonist. Antiinflammatory agent

Melting Point: Mp 158-160° (MeOH solvate). Mp 205-207° (anhyd.)

Optical Rotation: $[\alpha]_D +144$ ($CHCl_3$)

Calculated Log P Data: Log P 1.26 (uncertain value) (calc)

Hazard & Toxicity: High doses may cause cardiac arrhythmias, coma, and death. Adverse neurological, hepatic, and haematological effects also recorded. LD₅₀ (rat, orl) 360 mg/kg. LD₅₀ (rat, ipr) 94 mg/kg

Sigma: A7252