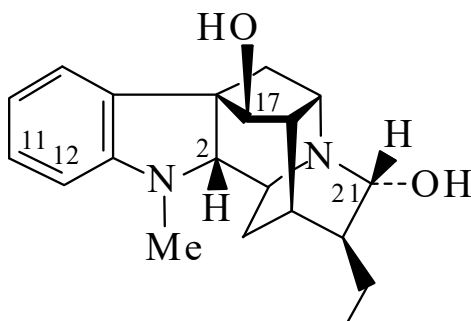




>>Entry Name: Ajmaline, BAN, JAN

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: C₂₀H₂₆N₂O₂

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: [α]_D +144 (CHCl₃)

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

>>Derivative: Hydrochloride

CAS Registry Number: 4410-48-4

Physical Description: Amber prisms + 2H₂O

Melting Point: Mp 133-134°. Mp 253-255° (anhyd.)

>>Derivative: Hydrochloride (1:2)

Physical Description: Plates

Melting Point: Mp 305-306 dec.°

>>Derivative: Picrate

Physical Description: Plates (EtOH)

Melting Point: Mp 126-127°. Mp 223° (anhyd.)

>>Derivative: 21-O-β-D-Glucopyranoside

Synonym(s): Rauglucine

CAS Registry Number: 119365-83-2

Molecular Formula: C₂₆H₃₆N₂O₇

Molecular Weight: 488.58

Accurate Mass: 488.252253

Percentage Composition: C 63.92%; H 7.43%; N 5.73%; O 22.92%

Biological Source: Alkaloid from *Rauwolfia serpentina* (Apocynaceae)