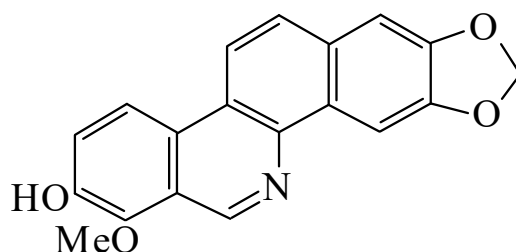




>>Entry Name: Decarine

Synonym(s): 1-Methoxy[1,3]benzodioxolo[5,6-*c*]phenanthridin-2-ol, 9Cl. 9-Methoxy-10-hydroxy-2,3-methylenedioxybenzophenanthridine



CAS Registry Number: 54354-62-0

Molecular Formula: C₁₉H₁₃NO₄

Molecular Weight: 319.316

Accurate Mass: 319.084459

Percentage Composition: C 71.47%; H 4.10%; N 4.39%; O 20.04%

Biological Source: Alkaloid from the bark of *Zanthoxylum arnottianum* and *Zanthoxylum microcarpum*, and from the stem bark of *Zanthoxylum decaryi* and *Zanthoxylum viride* (Rutaceae)

Physical Description: Orange needles (CHCl₃/MeOH or MeOH/HCl)

Melting Point: Mp 248-251° (244-246°)

>>Derivative: Methiodide

Physical Description: Yellow needles (EtOH/1M HCl)

Melting Point: Mp 137-139°

>>Derivative: Ac

Synonym(s): Decarine acetate. *O*-Acetyldecarine

CAS Registry Number: 54354-63-1

Molecular Formula: C₂₁H₁₅NO₅

Molecular Weight: 361.353

Accurate Mass: 361.095024

Percentage Composition: C 69.80%; H 4.18%; N 3.88%; O 22.14%

Biological Source: Alkaloid from stem bark of a *Zanthoxylum* spp. (*Zanthoxylum spinosum* or *Zanthoxylum coriaceum*)

Physical Description: Prisms (petrol)

Melting Point: Mp 210-212°

>>Derivative: Me ether

see *N*-Norchelerythrine, [BCL62-T](#)

>>Derivative: Et ether

Physical Description: Fine needles + 0.2CHCl₃ (CHCl₃/EtOH)

Melting Point: Mp 197-199°

References:

Vaquette, J. *et al.*, *Phytochemistry*, 1974, **13**, 1257, (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)

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Ishii, H. *et al.*, *Yakugaku Zasshi*, 1977, **97**, 890; *CA*, **87**, 197250g, (*isol*)

Ishii, H. *et al.*, *Chem. Pharm. Bull.*, 1978, **26**, 514, (*struct*)

Boulware, R.T. *et al.*, *J. Nat. Prod.*, 1981, **44**, 200, (*isol*, *uv*, *pmr*, *ms*)

Ng, K.M. *et al.*, *Phytochemistry*, 1987, **26**, 3251, (*Decarine acetate*)