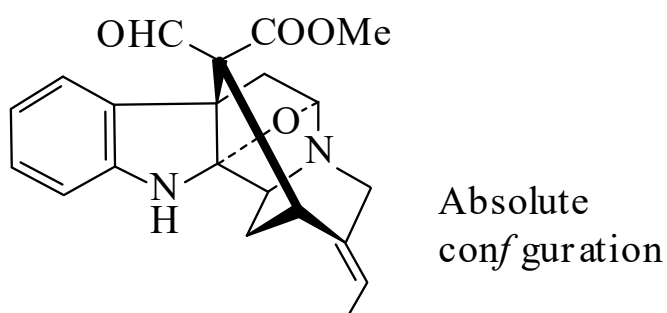




>>Entry Name: Picralinal

Synonym(s): Methyl 2,5-epoxy-1,2-dihydro-17-oxoakuammilan-16-carboxylate



CAS Registry Number: 20045-06-1

Molecular Formula: $C_{21}H_{22}N_2O_4$

Molecular Weight: 366.416

Accurate Mass: 366.157958

Percentage Composition: C 68.84%; H 6.05%; N 7.65%; O 17.47%

Biological Source: Alkaloid from *Alstonia scholaris*, *Rhazya stricta* and *Rhazya orientalis* (Apocynaceae)

Physical Description: Cryst. (MeOH or C_6H_6 /pentane)

Melting Point: Mp 154-155°. Mp 169-170 dec.°. Mp 179-180°

UV: [neutral] λ_{max} 237 (ϵ 7400); 293 (ϵ 2690) (EtOH) (Berdy)

>>Derivative: Picrate

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 170-172°

>>Derivative: (Z)-Isomer

Synonym(s): (Z)-Picralinal

Molecular Formula: $C_{21}H_{22}N_2O_4$

Molecular Weight: 366.416

Accurate Mass: 366.157958

Percentage Composition: C 68.84%; H 6.05%; N 7.65%; O 17.47%

Biological Source: Alkaloid from *Alstonia villosa*

Physical Description: Solid

Optical Rotation: $[\alpha]_D^{28} -144.3$ (c, 0.85 in MeOH)

UV: [neutral] λ_{max} 208 (log ϵ 4.67); 230 (log ϵ 4.4); 290 (log ϵ 4.1) (MeOH)

References:

Britten, A.Z. *et al.*, *J.C.S.*, 1963, 3850, (*uv*, *ir*, *synth*)

Evans, D.A. *et al.*, *Phytochemistry*, 1968, **7**, 1429, (*isol*)

Rastogi, R.C. *et al.*, *Experientia*, 1970, **26**, 1056, (*ir*, *uv*, *pmr*, *ms*)

Morita, Y. *et al.*, *Helv. Chim. Acta*, 1977, **60**, 1419, (*isol*)

Abe, F. *et al.*, *Chem. Pharm. Bull.*, 1998, **46**, 1235-1238, (*Z*-Picralinal)