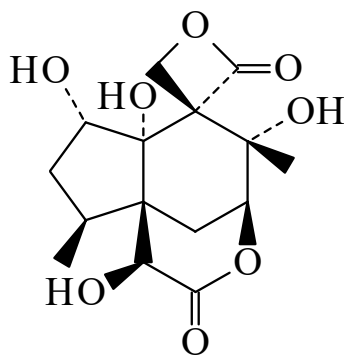




>>Entry Name: Anisatin



CAS Registry Number: 5230-87-5

Molecular Formula: $C_{15}H_{20}O_8$

Molecular Weight: 328.318

Accurate Mass: 328.11582

Percentage Composition: C 54.88%; H 6.14%; O 38.99%

General Statement: An 8,9-secoprezizaane

Biological Source: Isol. from seeds of *Illicium anisatum*

Use/Importance: Picrotoxin-like noncompetitive GABA antagonist

Physical Description: Cryst. (H₂O)

Melting Point: Mp 227-228°

Optical Rotation: $[\alpha]_D^{25} -27$ (c, 2 in dioxan)

Hazard & Toxicity: Convulsant poison. LD₅₀ (mus, ipr) 0.7 mg/kg. Reported to be most powerful poison of plant origin

References:

- Lane, J.F. *et al.*, *J.A.C.S.*, 1952, **74**, 3211, (*isol*)
Yamada, K. *et al.*, *Tet. Lett.*, 1965, 4797, (*struct*)
Wong, M.G. *et al.*, *Aust. J. Chem.*, 1988, **41**, 1071, (*cryst struct, pmr*)
Niwa, H. *et al.*, *J.A.C.S.*, 1990, **112**, 9001, (*synth*)
Pommier, A. *et al.*, *Synthesis*, 1995, 729, (*rev*)