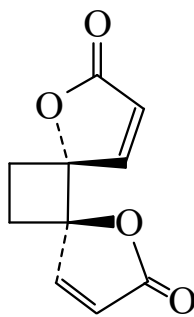




>>Entry Name: Anemonin

Synonym(s): 1,7-Dioxadispiro[4.0.4.2]dodeca-3,9-diene-2,8-dione, 9Cl. Isomycin. NSC 94101



CAS Registry Number: 508-44-1

Extra CAS Registry Numbers(s): 90921-11-2

Molecular Formula: C₁₀H₈O₄

Molecular Weight: 192.171

Accurate Mass: 192.04226

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Biological Source: Isol. from members of Ranunculaceae e.g. *Anemone pulsatilla*, *Ranunculus thora*, *Ranunculus acer*, *Clematis recta*, *Pulsatilla grandis*

Use/Importance: Antineoplastic, antibacterial agent

Physical Description: Needles or prisms

Melting Point: Mp 157-158°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃, dioxan, THF, phenol; fairly sol. H₂O, AcOH, C₆H₆; poorly sol. Et₂O, hexane, CCl₄, toluene

Calculated Log P Data: Log P -1.29 (calc)

UV: [neutral] λ_{max} 220 (ε 9900) (MeOH) (Berdy) [neutral] λ_{max} 220 (ε 9770) (EtOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 150 mg/kg

References:

Kipping, F.B. *et al.*, *J.C.S.*, 1935, 1145, (*synth*)

Ruijgrok, H.W.L., *Planta Med.*, 1963, **11**, 338, (*occur*)

Moriarty, R.M. *et al.*, *J.A.C.S.*, 1965, **87**, 3251, (*cryst struct*)

Stamos, I.K. *et al.*, *J.O.C.*, 1977, **42**, 1703, (*synth*)

Ju, Y. *et al.*, *CA*, 1988, **109**, 35250c, (*cryst struct*)

Yamamoto, M. *et al.*, *Chem. Comm.*, 1988, 560-561, (*synth*)