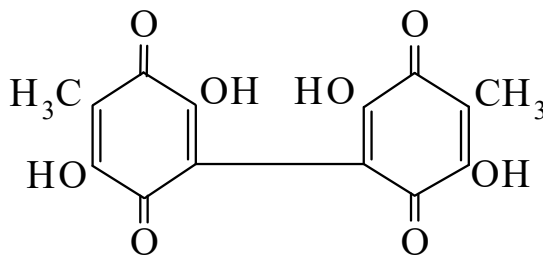




>>Entry Name: Oosporein

Synonym(s): 2,2',5,5'-Tetrahydroxy-4,4'-dimethyl[bi-1,4-cyclohexadien-1-yl]-3,3',6,6'-tetrone, 9Cl. 3,3',6,6'-Tetrahydroxy-4,4'-dimethylbinaphthoquinone. Chaetomidin. Isooosporein



CAS Registry Number: 475-54-7

Molecular Formula: C₁₄H₁₀O₈

Molecular Weight: 306.228

Accurate Mass: 306.03757

Percentage Composition: C 54.91%; H 3.29%; O 41.80%

Biological Source: Metab. of *Oospora colorans*, *Chaetomium aureum*, *Chaetomium trilaterale* and *Beauveria* spp. Also from *Phlebia* spp. and *Acremonium* sp.

Use/Importance: Toxic potential contaminant of animal feeds, plant growth inhibitor

Physical Description: Red-bronze cryst. (Me₂CO/petrol)

Melting Point: Mp 260-275 dec.°

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O, hexane

UV: [base] λ_{max} (solvent not reported) (Derep) [neutral] λ_{max} 216 (ε 3240); 290 (ε 39800); 372 (sh) (ε 871); 435 (ε 794) (EtOH) (Derep) [neutral] λ_{max} 290 (ε 40000); 425 (ε 710) (MeOH) (Berdy) [neutral] λ_{max} 216 (ε 3240); 287 (ε 46800); 372 (ε 870); 415 (ε 617) (EtOH) (Berdy)

Hazard & Toxicity: LD₅₀ (ckn, orl) approx 6 mg/kg

Sigma: O2006

>>Derivative: Tetra-Ac

Physical Description: Yellow cryst. (EtOAc/petrol)

Melting Point: Mp 191°

References:

- Divekar, P.V. *et al.*, *Can. J. Chem.*, 1959, **37**, 2097, (*isol*)
Birch, A.J. *et al.*, *Aust. J. Chem.*, 1967, **22**, 1319, (*biosynth*)
Brewer, D. *et al.*, *Can. J. Bot.*, 1968, **46**, 441, (*isol*)
Kalamar, J. *et al.*, *Helv. Chim. Acta*, 1974, **57**, 2368, (*synth*)
Steiner, E. *et al.*, *Helv. Chim. Acta*, 1974, **57**, 2377, (*biosynth*)
Cole, R.J. *et al.*, *J. Agric. Food Chem.*, 1974, **22**, 517, (*isol, tox*)
Cole, R.J. *et al.*, *Handbook of Toxic Fungal Metabolites*, Academic Press, New York, 1981, 830