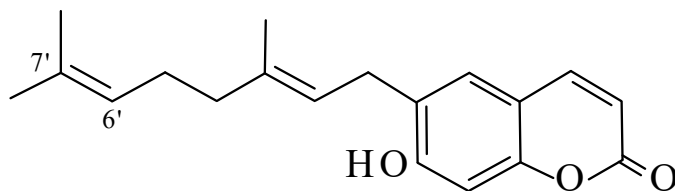




>>Entry Name: Ostruthin

Synonym(s): 6-(3,7-Dimethyl-2,6-octadienyl)-7-hydroxy-2*H*-1-benzopyran-2-one. 6-Geranyl-7-hydroxycoumarin



CAS Registry Number: 148-83-4

Molecular Formula: C₁₉H₂₂O₃

Molecular Weight: 298.381

Accurate Mass: 298.156895

Percentage Composition: C 76.48%; H 7.43%; O 16.09%

Biological Source: Isol. from roots of *Imperatoria ostruthium*, *Atalantia missionis*, *Ligusticum seguieri*, *Peucedanum ostruthium*, *Seseli krylovii*, *Luvunga eleutherandra* and *Eriostemon tomentellus*

Physical Description: Cryst. (EtOH aq. or C₆H₆/petrol)

Melting Point: Mp 117-118°

Solubility: BERDY SOL: Sol. EtOH, CHCl₃; poorly sol. hexane, H₂O

>>Derivative: Ac

Physical Description: Cryst.

Melting Point: Mp 80°

>>Derivative: Me ether

CAS Registry Number: 16912-92-8

Physical Description: Cryst.

Melting Point: Mp 55°

>>Derivative: Δ⁷-Isomer, 6'-hydroxy

Synonym(s): 7-Hydroxy-6-(6-hydroxy-3,7-dimethyl-2,7-octadienyl)-2*H*-1-benzopyran-2-one

Molecular Formula: C₁₉H₂₂O₄

Molecular Weight: 314.38

Accurate Mass: 314.15181

Percentage Composition: C 72.59%; H 7.05%; O 20.36%

Biological Source: Isol. from *Eriostemon tomentellus*

Physical Description: Gum

Optical Rotation: [α]_D +4 (c, 0.3 in CHCl₃)

References:

- Späth, E. *et al.*, *Ber.*, 1934, **67**, 859, (*isol*)
Ganguly, A.K., *Indian J. Chem.*, 1966, **4**, 292, (*isol*, *pmr*)
Lemmich, J. *et al.*, *Acta Chem. Scand.*, 1971, **25**, 344, (*isol*)
Rashid, M.A. *et al.*, *Z. Naturforsch., B*, 1992, **47**, 284, (*deriv*)
Cairns, N. *et al.*, *J.C.S. Perkin 1*, 1994, 3095; 3101, (*synth*)