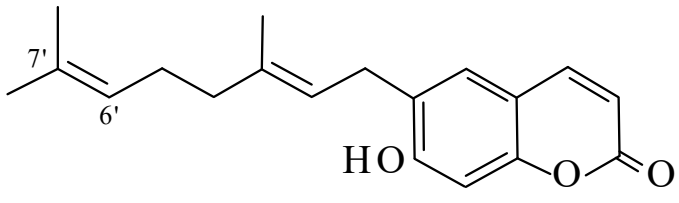
>>**Entry Name: Ostruthin**
Synonym(s): 6-(3,7-Dimethyl-2,6-octadienyl)-7-hydroxy-2*H*-1-benzopyran-2-one. 6-Geranyl-7-hydroxycoumarin



CAS Registry Number: 148-83-4

Molecular Formula: $C_{19}H_{22}O_3$
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 C_6H_6/petrol)
Melting Point: Mp 117-118°
Solubility: BERDY SOL: Sol. EtOH, $CHCl_3$; poorly sol. hexane, H_2O

>>**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:** $\Delta^{7'}$-Isomer, 6'-hydroxy
Synonym(s): 7-Hydroxy-6-(6-hydroxy-3,7-dimethyl-2,7-octadienyl)-2*H*-1-benzopyran-2-one

Molecular Formula: $C_{19}H_{22}O_4$
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: $[\alpha]_D$ +4 (c, 0.3 in $CHCl_3$)

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)*