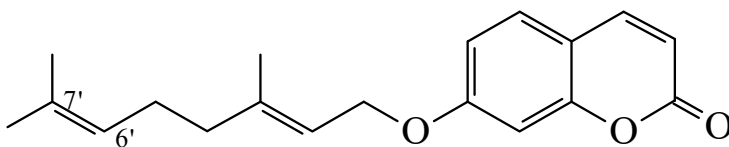




>>Entry Name: Auraptene

ENTRY UNDER REVIEW

Synonym(s): 7-(3,7-Dimethyl-2,6-octadienyl)oxy-2*H*-1-benzopyran-2-one, 9Cl. *O*-Geranylumbelliferone. Feronialactone. 7-Geranyloxycoumarin



CAS Registry Number: 495-02-3

Molecular Formula: C₁₉H₂₂O₃

Molecular Weight: 298.381

Accurate Mass: 298.156895

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

General Statement: Not to be confused with Meranzin [CNT07-E](#)

Biological Source: Isol. from *Citrus aurantium*, *Feronia elephantum*, *Aegle marmelos*, *Libanotis intermedia* and others

Biological Use/Importance: Antifungal agent. Shows spasmolytic activity

Physical Description: Prisms (EtOH)

Melting Point: Mp 68°

UV: [neutral] λ_{max} 252 (); 329 () (MeOH) (Berdy)

>>Derivative: 6'*R*,7'-Epoxide

Synonym(s): 6',7'-Epoxyauraptene

CAS Registry Number: 36414-00-3

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 *Aster yunnanensis*

Biological Use/Importance: Shows spasmolytic activity

Physical Description: Oil or cryst.

Melting Point: Mp 55-57.5°

Optical Rotation: [α]_D²²+21 (CHCl₃)

>>Derivative: 5'-Oxo

Synonym(s): Diversinin

CAS Registry Number: 57818-86-7

Molecular Formula: C₁₉H₂₀O₄

Molecular Weight: 312.365

Accurate Mass: 312.13616

Percentage Composition: C 73.06%; H 6.45%; O 20.49%

Biological Source: Isol. from *Ferula diversivittata* and *Machaeranthera scabrella*

Physical Description: Cryst. (EtOH)

Melting Point: Mp 55-57°

>>Derivative: 8'-Oxo

Synonym(s): Auraptenal. 2,6-Dimethyl-8-[(2-oxo-2*H*-1-benzopyran-7-yl)oxy]-2,6-octadienal, 9Cl. Umbelliferone 8-oxogeranyl ether

CAS Registry Number: 30825-46-8

Molecular Formula: C₁₉H₂₀O₄

Molecular Weight: 312.365

Accurate Mass: 312.13616

Percentage Composition: C 73.06%; H 6.45%; O 20.49%

Biological Source: Isol. from *Capnophyllum peregrinum*

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 64°