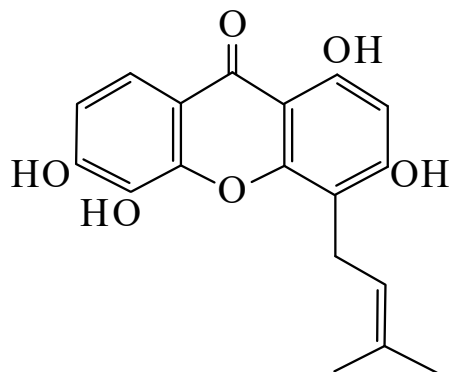




>>Entry Name: **1,3,5,6-Tetrahydroxy-4-prenylxanthone**

Synonym(s): 1,3,5,6-Tetrahydroxy-4-(3-methyl-2-butenyl)-9*H*-xanthen-9-one, 9Cl. **Ugaxanthone**



CAS Registry Number: 13179-11-8

Molecular Formula: C₁₈H₁₆O₆

Molecular Weight: 328.321

Accurate Mass: 328.09469

Percentage Composition: C 65.85%; H 4.91%; O 29.24%

Biological Source: Constit. of *Symphonia globulifera*, *Garcinia dulcis* and *Hypericum japonicum*

Physical Description: Pale yellow cryst

UV: [neutral] λ_{max} 242 (); 312 () (MeOH)

>>Derivative: 3-Me ether

Synonym(s): 1,5,6-Trihydroxy-3-methoxy-4-prenylxanthone. **Dulxanthone A**

Molecular Formula: C₁₉H₁₈O₆

Molecular Weight: 342.348

Accurate Mass: 342.11034

Percentage Composition: C 66.66%; H 5.30%; O 28.04%

Biological Source: Constit. of the stem bark of *Garcinia dulcis*

Physical Description: Yellow powder

UV: [neutral] λ_{max} 236 (sh) (); 253 (); 285 (); 328 () (MeOH)

>>Derivative: 5-Me ether

Synonym(s): 1,3,6-Trihydroxy-5-methoxy-4-prenylxanthone

Molecular Formula: C₁₉H₁₈O₆

Molecular Weight: 342.348

Accurate Mass: 342.11034

Percentage Composition: C 66.66%; H 5.30%; O 28.04%

Biological Source: Constit. of the bark of *Anaxagorea luzonensis*

Physical Description: Yellow powder

UV: [neutral] λ_{max} 242 (); 322 (); 362 () (MeOH)

>>Derivative: 3,5,6-Tri-Me ether

Synonym(s): 1-Hydroxy-3,5,6-trimethoxy-4-prenylxanthone

Molecular Formula: C₂₁H₂₂O₆

Molecular Weight: 370.401

Accurate Mass: 370.14164

Percentage Composition: C 68.10%; H 5.99%; O 25.92%

Physical Description: Pale yellow cryst.

Melting Point: Mp 162°

References:

Burling, E.D. *et al.*, *Tetrahedron*, 1965, **21**, 2653, (*synth*)

Locksley, H.D. *et al.*, *J.C.S.(C)*, 1966, 2265, (*isol*)

Ito, C. *et al.*, *Chem. Pharm. Bull.*, 1997, **45**, 1403-1413, (*isol, Dulxanthone A*)

Wu, Q.-L. *et al.*, *Phytochemistry*, 1998, **49**, 1395-1402, (*isol, uv, ir, pmr, cmr, ms*)

Gonda, R. *et al.*, *Chem. Pharm. Bull.*, 2000, **48**, 1219-1222, (*5-Me ether*)