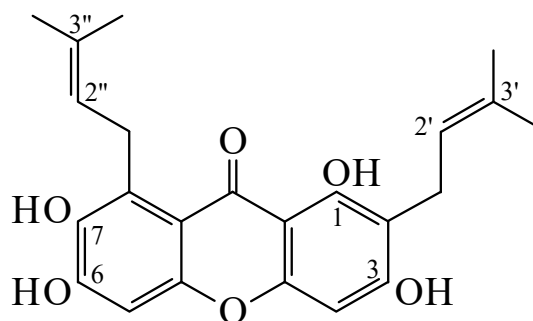




>>Entry Name: 1,3,6,7-Tetrahydroxy-2,8-diprenylxanthone

Synonym(s): 1,3,6,7-Tetrahydroxy-2,8-bis(3-methyl-2-butenyl)-9*H*-xanthen-9-one, 9Cl. **γ -Mangostin**. Normangostin



CAS Registry Number: 31271-07-5

Molecular Formula: C₂₃H₂₄O₆

Molecular Weight: 396.439

Accurate Mass: 396.15729

Percentage Composition: C 69.68%; H 6.10%; O 24.21%

Biological Source: Constit. of *Garcinia mangostana*

Physical Description: Yellow cryst. (EtOAc/petrol)

Melting Point: Mp 207°

UV: [neutral] $\lambda_{\max}$ 247 (); 261 (); 314 (); 364 () (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 280 (); 350 () (EtOH) (Berdy)

>>Derivative: 7-Me ether

Synonym(s): 1,3,6-Trihydroxy-7-methoxy-2,8-diprenylxanthone. **α -Mangostin**

CAS Registry Number: 6147-11-1

Molecular Formula: C₂₄H₂₆O₆

Molecular Weight: 410.466

Accurate Mass: 410.17294

Percentage Composition: C 70.23%; H 6.38%; O 23.39%

Biological Source: Pigment from *Garcinia mangostana*, *Hydnocarpus octandra* and *Hydnocarpus venenata*

Physical Description: Yellow needles (C₆H₆, petrol or EtOH aq.)

Melting Point: Mp 180-181°

UV: [neutral] $\lambda_{\max}$ 243 (); 260 (); 314 (); 350 () (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 243 (ϵ 34500); 259 (ϵ 27500); 318 (ϵ 19000); 351 (ϵ 7200) (EtOH) (Berdy)

>>Derivative: 3,7-Di-Me ether

Synonym(s): 1,6-Dihydroxy-3,7-dimethoxy-2,8-diprenylxanthone. **β -Mangostin**

CAS Registry Number: 20931-37-7

Molecular Formula: C₂₅H₂₈O₆

Molecular Weight: 424.493

Accurate Mass: 424.18859

Percentage Composition: C 70.74%; H 6.65%; O 22.61%

Biological Source: From *Garcinia mangostana*

Physical Description: Lemon-yellow rods (EtOH)

Melting Point: Mp 175-176°

>>Derivative: 3,6,7-Tri-Me ether

Synonym(s): 1-Hydroxy-3,6,7-trimethoxy-2,8-diprenylxanthone

CAS Registry Number: 15404-76-9

Biological Source: Constit. of *Garcinia mangostana*

Physical Description: Cryst. (EtOH)

Melting Point: Mp 120-121°