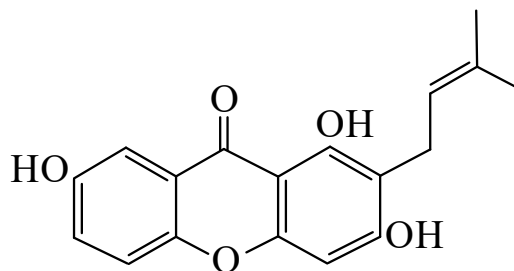




>>Entry Name: 1,3,7-Trihydroxy-2-prenylxanthone

Synonym(s): 1,3,7-Trihydroxy-2-(3-methyl-2-butenyl)-9*H*-xanthen-9-one, 9Cl, 8Cl. 2-(3,3-Dimethylallyl)-1,3,7-trihydroxyxanthone



CAS Registry Number: 20245-39-0

Molecular Formula: C₁₈H₁₆O₅

Molecular Weight: 312.321

Accurate Mass: 312.099775

Percentage Composition: C 69.22%; H 5.16%; O 25.61%

Biological Source: Isol. from heartwood of *Calophyllum scriblitifolium* and *Pentaphalangium solomonse*

Physical Description: Yellow needles

Melting Point: Mp 227-229° (218-220°)

UV: [neutral] $\lambda_{\max}$ 238 (log ϵ 17.57); 262 (log ϵ 16.08); 316 (log ϵ 8.08); 375 (log ϵ 3) (MeOH) [neutral] $\lambda_{\max}$ 238 (); 262 (); 316 (); 375 () (MeOH) (Berdy)

>>Derivative: 3-Me ether

Synonym(s): 1,7-Dihydroxy-3-methoxy-2-prenylxanthone

CAS Registry Number: 77741-58-3

Molecular Formula: C₁₉H₁₈O₅

Molecular Weight: 326.348

Accurate Mass: 326.115425

Percentage Composition: C 69.93%; H 5.56%; O 24.51%

Biological Source: Isol. from fruit hulls of *Garcinia mangostana*

Physical Description: Yellow cryst. (C₆H₆/MeOH)

Melting Point: Mp 220-222°

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

Synonym(s): 1-Hydroxy-3,7-dimethoxy-2-prenylxanthone

CAS Registry Number: 13179-17-4

Molecular Formula: C₂₀H₂₀O₅

Molecular Weight: 340.375

Accurate Mass: 340.131075

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Constit. of heartwood of *Allanblackia floribunda*

Physical Description: Pale-cream cryst. (petrol)

Melting Point: Mp 147-149°

>>Derivative: 2',3'-Dihydro, 3'-hydroxy

Synonym(s): 1,3,7-Trihydroxy-2-(3-hydroxy-3-methylbutyl)xanthone

Molecular Formula: C₁₈H₁₈O₆

Molecular Weight: 330.337

Accurate Mass: 330.11034

Percentage Composition: C 65.45%; H 5.49%; O 29.06%

Biological Source: Constit. of *Kielmeyera coriacea*

Physical Description: Yellow cryst. (MeOH)

Melting Point: Mp 233-235°

UV: [neutral] $\lambda_{\max}$ 235 (log ϵ 6.88); 261 (log ϵ 6.07); 312 (log ϵ 3.09); 375 (log ϵ 1.16) (MeOH)

References: