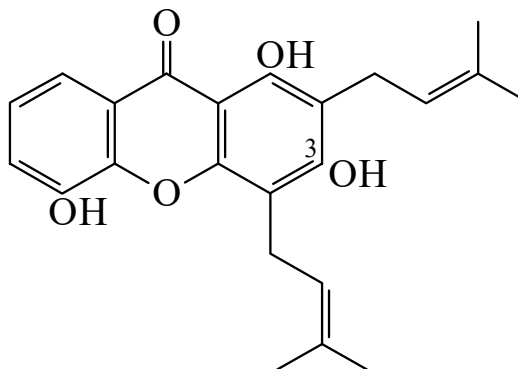




>>Entry Name: 1,3,5-Trihydroxy-2,4-diprenylxanthone

Synonym(s): 1,3,5-Trihydroxy-2,4-bis(3-methyl-2-butenyl)-9*H*-xanthen-9-one. 8-Desoxygartanin



CAS Registry Number: 33390-41-9

Molecular Formula: C₂₃H₂₄O₅

Molecular Weight: 380.44

Accurate Mass: 380.162375

Percentage Composition: C 72.61%; H 6.36%; O 21.03%

Biological Source: Isol. from *Garcinia mangostana* and *Clusia* spp.

Physical Description: Yellow needles (C₆H₆/hexane)

Melting Point: Mp 165.5°

Solubility: BERDY SOL: Sol. H₂O; poorly sol. Me₂CO, hexane

UV: [neutral] λ_{max} 264 () (MeOH) (Berdy) [neutral] λ_{max} 264 (E1%/1cm 495) (H₂O) (Berdy) [acid] λ_{max} 264 () (HCl) (Berdy)

>>Derivative: 3-Me ether

Synonym(s): 1,5-Dihydroxy-3-methoxy-2,4-diprenylxanthone. Cudraxanthone G

CAS Registry Number: 130774-35-5

Molecular Formula: C₂₄H₂₆O₅

Molecular Weight: 394.466

Accurate Mass: 394.178025

Percentage Composition: C 73.08%; H 6.64%; O 20.28%

Biological Source: Constit. of *Cudrania tricuspidata*

Physical Description: Yellow prisms (hexane)

Melting Point: Mp 129-131°

>>Derivative: 3,5-Di-Me ether

Synonym(s): 1-Hydroxy-3,5-dimethoxy-2,4-diprenylxanthone. 3,5-Di-*O*-methyl-8-deoxygartanin

CAS Registry Number: 35323-84-3

Molecular Formula: C₂₅H₂₈O₅

Molecular Weight: 408.493

Accurate Mass: 408.193675

Percentage Composition: C 73.51%; H 6.91%; O 19.58%

Biological Source: Constit. of *Garcinia mangostana*

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 117-118° (106-108°)

>>Derivative: Tri-Me ether

Synonym(s): 1,3,5-Trimethoxy-2,4-diprenylxanthone

CAS Registry Number: 54254-64-7

Molecular Formula: C₂₆H₃₀O₅

Molecular Weight: 422.52

Accurate Mass: 422.209325

Percentage Composition: C 73.91%; H 7.16%; O 18.93%

Use/Importance: Needles (MeOH)

Physical Description: 128-129

References:

- Govindachari, T.R. *et al.*, *Tetrahedron*, 1971, **27**, 3919
Anand, S.M. *et al.*, *Aust. J. Chem.*, 1974, **27**, 1515, (*synth*)
Bennett, G.J. *et al.*, *J.C.S. Perkin I*, 1990, 2671, (*isol, deriv*)
Hano, Y. *et al.*, *Planta Med.*, 1990, **56**, 399, (*deriv*)
Ito, C. *et al.*, *Chem. Pharm. Bull.*, 1996, **44**, 441, (*deriv, uv, ir, pmr, cmr, ms*)