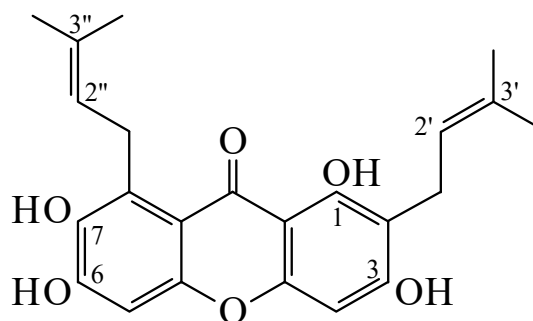




>>Entry Name: **1,3,6,7-Tetrahydroxy-2,8-diprenylxanthone**

**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:** C<sub>23</sub>H<sub>24</sub>O<sub>6</sub>

**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] λ<sub>max</sub> 247 (); 261 (); 314 (); 364 () (MeOH) (Berdy) [neutral] λ<sub>max</sub> 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:** C<sub>24</sub>H<sub>26</sub>O<sub>6</sub>

**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 (C<sub>6</sub>H<sub>6</sub>, petrol or EtOH aq.)

**Melting Point:** Mp 180-181°

**UV:** [neutral] λ<sub>max</sub> 243 (); 260 (); 314 (); 350 () (MeOH) (Berdy) [neutral] λ<sub>max</sub> 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:** C<sub>25</sub>H<sub>28</sub>O<sub>6</sub>

**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°