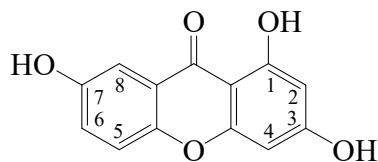




>>Entry Name: 1,3,7-Trihydroxyxanthone

Synonym(s): 1,3,7-Trihydroxy-9*H*-xanthen-9-one, 9Cl. **Gentisein**



CAS Registry Number: 529-49-7

Molecular Formula: C₁₃H₈O₅

Molecular Weight: 244.203

Accurate Mass: 244.037175

Percentage Composition: C 63.94%; H 3.30%; O 32.76%

Biological Source: Isol. from *Gentiana lutea*, *Haploclathra* sp., *Hypericum* spp. and *Swertia* sp.

Physical Description: Orange-yellow needles (MeOH)

Melting Point: Mp 321-323°

UV: [neutral] λ_{max} 204 (ε 8912); 237 (ε 19500); 260 (ε 24550); 310 (ε 7580); 374 (ε 2450) (MeOH) (Berdy)

>>Derivative: 3-*O*-β-D-Glucopyranoside

Synonym(s): Xanthohypericoside

Molecular Formula: C₁₉H₁₈O₁₀

Molecular Weight: 406.345

Accurate Mass: 406.09

Percentage Composition: C 56.16%; H 4.46%; O 39.37%

Biological Source: Constit. of *Hypericum annulatum*

Physical Description: Yellow needles

Melting Point: Mp 233-234°

UV: [neutral] λ_{max} 205 (); 236 (); 260 (); 302 (); 376 () (MeOH)

>>Derivative: Tri-Ac

Molecular Formula: C₁₉H₁₄O₈

Molecular Weight: 370.315

Percentage Composition: C 61.63%; H 3.81%; O 34.56%

Melting Point: Mp 229-230°

>>Derivative: 1-Me ether

Synonym(s): 3,7-Dihydroxy-1-methoxyxanthone

CAS Registry Number: 16850-68-3

Molecular Formula: C₁₄H₁₀O₅

Molecular Weight: 258.23

Accurate Mass: 258.052825

Percentage Composition: C 65.12%; H 3.90%; O 30.98%

Physical Description: Yellow needles (MeOH aq.)

Melting Point: Mp 178°

>>Derivative: 3-Me ether

Synonym(s): 1,7-Dihydroxy-3-methoxyxanthone. **Gentisin**. **Gentianin**‡. Gentianic acid

CAS Registry Number: 437-50-3

Molecular Formula: C₁₄H₁₀O₅

Molecular Weight: 258.23

Accurate Mass: 258.052825

Percentage Composition: C 65.12%; H 3.90%; O 30.98%

Biological Source: Pigment from root of *Gentiana lutea*

Physical Description: Yellow needles

Melting Point: Mp 273-275° (266-267°)