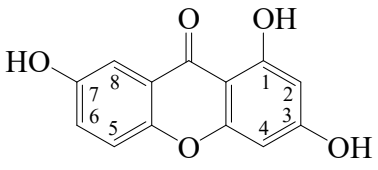
>>**Entry Name: 1,3,7-Trihydroxyxanthone**
Synonym(s): 1,3,7-Trihydroxy-9*H*-xanthen-9-one, 9Cl. **Gentisein**



CAS Registry Number: 529-49-7

Molecular Formula: $C_{13}H_8O_5$
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: $C_{19}H_{18}O_{10}$
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: $C_{19}H_{14}O_8$
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: $C_{14}H_{10}O_5$
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: $C_{14}H_{10}O_5$
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°)