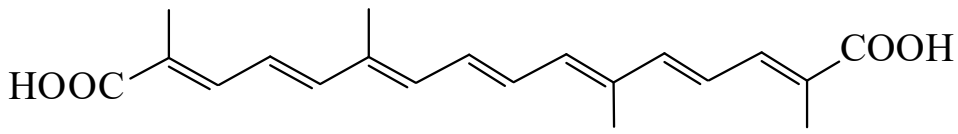
>>**Entry Name: Crocetin**
ENTRY UNDER REVIEW
Synonym(s): 2,6,11,15-Tetramethyl-2,4,6,8,10,12,14-hexadecaheptaenedioic acid. 8,8'-Diapo-8,8'-carotenedioic acid. Nyctanthin. α-Crocetin. **Gardenidin‡**



Molecular Formula: $C_{20}H_{24}O_4$
Molecular Weight: 328.407
Accurate Mass: 328.16746
Percentage Composition: C 73.15%; H 7.37%; O 19.49%

>>**Variant:** (all-*E*)-form

CAS Registry Number: 27876-94-4

Molecular Formula: $C_{20}H_{24}O_4$
Molecular Weight: 328.407
Accurate Mass: 328.16746
Percentage Composition: C 73.15%; H 7.37%; O 19.49%
Biological Source: Isol. from *Gardenia* spp. from *Nyctanthes arbor-tristis, Cedrela toona, Mimosa pudica* and others
Use/Importance: Singlet oxygen quencher
Physical Description: Red cryst. (Ac_2O)
Melting Point: Mp 285-287°
UV: [neutral] λ_{max} 411 (); 436 (); 464 () (Py)

>>**Derivative:** Mono-Me ester
Synonym(s): β-Crocetin

CAS Registry Number: 25368-09-6
Molecular Formula: $C_{21}H_{26}O_4$
Molecular Weight: 342.434
Accurate Mass: 342.18311
Percentage Composition: C 73.66%; H 7.65%; O 18.69%
Physical Description: Cryst. ($CHCl_3$)
Melting Point: Mp 218°

>>**Derivative:** Di-Me ester
Synonym(s): **γ-Crocetin**

CAS Registry Number: 5892-54-6

Molecular Formula: $C_{22}H_{28}O_4$
Molecular Weight: 356.461
Accurate Mass: 356.19876
Percentage Composition: C 74.13%; H 7.92%; O 17.95%
Biological Source: Isol. from saffron
Physical Description: Orange-red cryst. ($CHCl_3$/MeOH)
Melting Point: Mp 222-225°

>>**Derivative:** Mono-β-D-glucopyranosyl ester

CAS Registry Number: 58050-17-2

Molecular Formula: $C_{26}H_{34}O_9$
Molecular Weight: 490.549
Accurate Mass: 490.220285
Percentage Composition: C 63.66%; H 6.99%; O 29.35%
Biological Source: Isol. from saffron
Other Data: λ_{max} 419, 440, 468 nm (Py)