



>>Entry Name: 9,11,13-Octadecatrienoic acid
ENTRY UNDER REVIEW

CAS Registry Number: 13296-76-9
Related CAS Registry Numbers(s): 27213-43-0
Extra CAS Registry Numbers(s): 25448-03-7
H3C(CH2)3CH=CHCH=CHCH=CH(CH2)7COOH

Molecular Formula: $C_{18}H_{30}O_2$
Molecular Weight: 278.434
Accurate Mass: 278.22458
Percentage Composition: C 77.65%; H 10.86%; O 11.49%

>>Variant: (*E,E,E*)-form
Synonym(s): β -Eleostearic acid

CAS Registry Number: 544-73-0
Molecular Formula: $C_{18}H_{30}O_2$
Molecular Weight: 278.434
Accurate Mass: 278.22458
Percentage Composition: C 77.65%; H 10.86%; O 11.49%
Source/Synthesis: Can be formed by stereomutation of any of the 9,11,13-Octadecatrienoic acids
Physical Description: Cryst. (EtOH)
Melting Point: Mp 72°
Boiling Point: Bp₁ 188°

>>Derivative: Me ester

CAS Registry Number: 4238-03-3
Molecular Formula: $C_{19}H_{32}O_2$
Molecular Weight: 292.461
Accurate Mass: 292.24023
Percentage Composition: C 78.03%; H 11.03%; O 10.94%
Melting Point: Mp 12.5-13.2°
Boiling Point: Bp₁ 162°

>>Derivative: Et ester

CAS Registry Number: 6114-25-6
Molecular Formula: $C_{20}H_{34}O_2$
Molecular Weight: 306.487
Accurate Mass: 306.25588
Percentage Composition: C 78.38%; H 11.18%; O 10.44%
Boiling Point: Bp₁₄ 232°

>>Variant: (9*Z*,11*E*,13*E*)-form
Synonym(s): α -Eleostearic acid. Elaeostearinic acid. Margarolic acid. Elaeomargarinic acid

CAS Registry Number: 506-23-0

Molecular Formula: $C_{18}H_{30}O_2$
Molecular Weight: 278.434
Accurate Mass: 278.22458
Percentage Composition: C 77.65%; H 10.86%; O 11.49%

Physical Description: Cryst. (MeOH)
Melting Point: Mp 49-49.2°
UV: [neutral] $\lambda_{\max}$ 262 (); 272 (); 293 () (cyclohexane) (Berdy)
Other Data: Rapidly polymerises. $\lambda_{\max}$ 262, 272, 283 nm (cyclohexane)

>>Derivative: Me ester

CAS Registry Number: 4175-47-7
Molecular Formula: $C_{19}H_{32}O_2$
Molecular Weight: 292.461
Accurate Mass: 292.24023
Percentage Composition: C 78.03%; H 11.03%; O 10.94%
Boiling Point: Bp₁ 148°