



>>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: C₁₈H₃₀O₂
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: C₁₈H₃₀O₂
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: C₁₉H₃₂O₂
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: C₂₀H₃₄O₂
Molecular Weight: 306.487
Accurate Mass: 306.25588
Percentage Composition: C 78.38%; H 11.18%; O 10.44%
Boiling Point: Bp₁₄ 232°

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

CAS Registry Number: 506-23-0

Molecular Formula: C₁₈H₃₀O₂
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] λ_{max} 262 (); 272 (); 293 () (cyclohexane) (Berdy)
Other Data: Rapidly polymerises. λ_{max} 262, 272, 283 nm (cyclohexane)

>>Derivative: Me ester

CAS Registry Number: 4175-47-7
Molecular Formula: C₁₉H₃₂O₂
Molecular Weight: 292.461
Accurate Mass: 292.24023
Percentage Composition: C 78.03%; H 11.03%; O 10.94%
Boiling Point: Bp₁ 148°