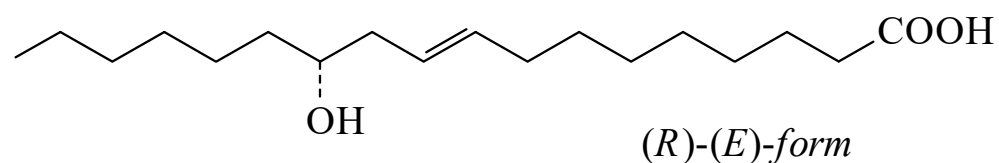




>>Entry Name: 12-Hydroxy-9-octadecenoic acid, 9CI



CAS Registry Number: 7431-95-0

Related CAS Registry Numbers(s): 35732-94-6 127062-51-5 127062-52-6 238761-41-6

Molecular Formula: C₁₈H₃₄O₃

Molecular Weight: 298.465

Accurate Mass: 298.250795

Percentage Composition: C 72.44%; H 11.48%; O 16.08%

>>Variant: (*R,E*)-form

Synonym(s): Ricinelaidic acid

CAS Registry Number: 540-12-5

Molecular Formula: C₁₈H₃₄O₃

Molecular Weight: 298.465

Accurate Mass: 298.250795

Percentage Composition: C 72.44%; H 11.48%; O 16.08%

Source/Synthesis: Made from Ricinoleic acid by double-bond stereomutation

Melting Point: Mp 51-52°

Boiling Point: Bp₁₀ 240-242°

Optical Rotation: [α]_D²⁰ +6.67 (EtOH)

>>Derivative: Me ester

CAS Registry Number: 7706-01-6

Molecular Formula: C₁₉H₃₆O₃

Molecular Weight: 312.492

Accurate Mass: 312.266445

Percentage Composition: C 73.03%; H 11.61%; O 15.36%

Optical Rotation: [α]₄₀₀ +12.7

Sigma: R8500

>>Derivative: Et ester

CAS Registry Number: 147649-61-4

Molecular Formula: C₂₀H₃₈O₃

Molecular Weight: 326.518

Accurate Mass: 326.282095

Percentage Composition: C 73.57%; H 11.73%; O 14.70%

Melting Point: Mp 16°

>>Derivative: Amide

Molecular Formula: C₁₈H₃₅NO₂

Molecular Weight: 297.48

Accurate Mass: 297.266779

Percentage Composition: C 72.68%; H 11.86%; N 4.71%; O 10.76%

Melting Point: Mp 91-93°

>>Derivative: Lactone

Synonym(s): 13-Hexyloxacyclotridec-10-en-2-one, 9CI

CAS Registry Number: 59744-10-4

Molecular Formula: C₁₈H₃₂O₂

Molecular Weight: 280.45

Accurate Mass: 280.24023

Percentage Composition: C 77.09%; H 11.50%; O 11.41%

Physical Description: Oil

Boiling Point: Bp_{0.01} 110°

Optical Rotation: [α]_D²³ +41.4 (c, 1 in CHCl₃)