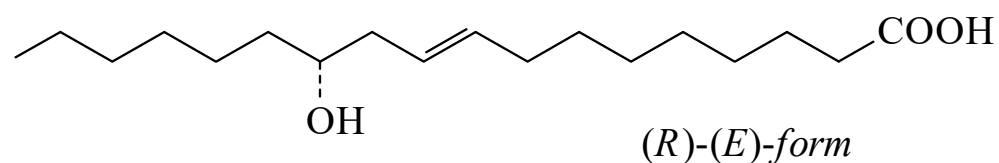




>>Entry Name: 12-Hydroxy-9-octadecenoic acid, 9CI



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: $C_{18}H_{34}O_3$

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: $C_{18}H_{34}O_3$

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: $[\alpha]_D^{20} +6.67$ (EtOH)

>>Derivative: Me ester

CAS Registry Number: 7706-01-6

Molecular Formula: $C_{19}H_{36}O_3$

Molecular Weight: 312.492

Accurate Mass: 312.266445

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

Optical Rotation: $[\alpha]_{400} +12.7$

Sigma: R8500

>>Derivative: Et ester

CAS Registry Number: 147649-61-4

Molecular Formula: $C_{20}H_{38}O_3$

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: $C_{18}H_{35}NO_2$

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: $C_{18}H_{32}O_2$

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: $[\alpha]_D^{23} +41.4$ (c, 1 in $CHCl_3$)