



>>Entry Name: 16-Hydroxyhexadecanoic acid, 9CI

Synonym(s): 16-Hydroxypalmitic acid. Juniperic acid. Juniperinic acid

CAS Registry Number: 506-13-8

$\text{HOCH}_2(\text{CH}_2)_{14}\text{COOH}$

Molecular Formula: $\text{C}_{16}\text{H}_{32}\text{O}_3$

Molecular Weight: 272.427

Accurate Mass: 272.235145

Percentage Composition: C 70.54%; H 11.84%; O 17.62%

Biological Source: Isol. from many conifer waxes, eg. *Juniperus*, *Picea* spp. and other plant waxes

Physical Description: Cryst. ($\text{C}_6\text{H}_6/\text{Et}_2\text{O}$)

Melting Point: Mp 95°

Aldrich: 17749-0

Fluka: 55325

Sigma: H7008

>>Derivative: Me ester

CAS Registry Number: 36575-67-4

Molecular Formula: $\text{C}_{17}\text{H}_{34}\text{O}_3$

Molecular Weight: 286.454

Accurate Mass: 286.250795

Percentage Composition: C 71.28%; H 11.96%; O 16.76%

Physical Description: Cryst. (petrol/EtOH)

Melting Point: Mp 55-55.5°

Boiling Point: Bp₂ 194-196°

Sigma: H4402

>>Derivative: Ac

CAS Registry Number: 66146-69-8

Molecular Formula: $\text{C}_{18}\text{H}_{34}\text{O}_4$

Molecular Weight: 314.464

Accurate Mass: 314.24571

Percentage Composition: C 68.75%; H 10.90%; O 20.35%

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 63°

Boiling Point: Bp₂ 215-218°

>>Derivative: Lactone

Synonym(s): Oxacycloheptadecan-2-one, 9CI. Dihydroambrettolide

CAS Registry Number: 109-29-5

Molecular Formula: $\text{C}_{16}\text{H}_{30}\text{O}_2$

Molecular Weight: 254.412

Accurate Mass: 254.22458

Percentage Composition: C 75.54%; H 11.89%; O 12.58%

Physical Description: Cryst. (EtOH) with musky odour

Melting Point: Mp 33-34°

Boiling Point: Bp₁₅ 188°

Hazard & Toxicity: Skin irritant. LD₅₀ (rat, orl) >5000 mg/kg

Sigma: H0893

References: