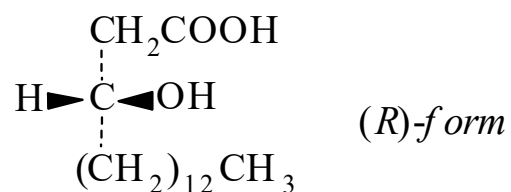




>>Entry Name: 3-Hydroxyhexadecanoic acid

Synonym(s): 3-Hydroxypalmitic acid



CAS Registry Number: 2398-34-7

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%

>>Variant: (R)-form

CAS Registry Number: 20595-04-4

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: Present in extracellular glycolipids of *Rhodotorula* spp.

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 78-79°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -19.2$ (c, 1.18 in CHCl_3). $[\alpha]_{\text{D}}^{20} -13.8$ (c, 1 in CHCl_3)

>>Derivative: Me ester

CAS Registry Number: 51883-36-4

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. (Me_2CO)

Melting Point: Mp 48-49°

Optical Rotation: $[\alpha]_{\text{D}} -13.8$ (c, 5.6 in CHCl_3). $[\alpha]_{\text{D}} +2.1$ (c, 6.8 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 928-17-6

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%

Physical Description: Cryst. (CHCl_3)

Melting Point: Mp 84-85°

Sigma: H4398

>>Derivative: Ac

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%

Melting Point: Mp 58°

References: