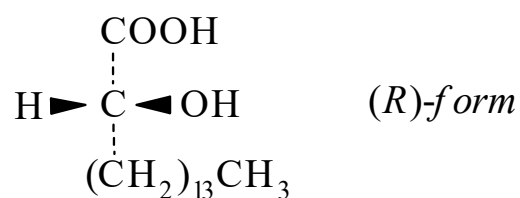




>>Entry Name: 2-Hydroxyhexadecanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): 2-Hydroxypalmitic acid



CAS Registry Number: 764-67-0

Molecular Formula: C₁₆H₃₂O₃

Molecular Weight: 272.427

Accurate Mass: 272.235145

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

Rare Chemicals Library: S44224-0

Sigma: H7021

>>Variant: (R)-form

CAS Registry Number: 16452-51-0

Molecular Formula: C₁₆H₃₂O₃

Molecular Weight: 272.427

Accurate Mass: 272.235145

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

Biological Source: Occurs in wool fat. Metab. of *Hansenula sydowiorum*

Melting Point: Mp 93.3-93.6°

Optical Rotation: [α]_D -3.2 (CHCl₃)

>>Derivative: Me ester

CAS Registry Number: 36451-47-5

Molecular Formula: C₁₇H₃₄O₃

Molecular Weight: 286.454

Accurate Mass: 286.250795

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

Melting Point: Mp 45-46°

Boiling Point: Bp₅ 250-251°. Bp₁ 153.5-154°

>>Derivative: Ac

CAS Registry Number: 95603-89-7

Molecular Formula: C₁₈H₃₄O₄

Molecular Weight: 314.464

Accurate Mass: 314.24571

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

Physical Description: Cryst. (hexane)

Melting Point: Mp 61-62°

Optical Rotation: [α]_D²² +10.6 (c, 0.52 in CHCl₃)

>>Derivative: Me ether

Synonym(s): 2-Methoxyhexadecanoic acid

Molecular Formula: C₁₇H₃₄O₃

Molecular Weight: 286.454

Accurate Mass: 286.250795

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

Biological Source: Isol. from the sponge *Amphimedon compressa*

Other Data: Isol. as Me ester. Probable config. assigned