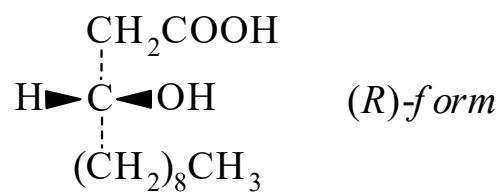




>>Entry Name: 3-Hydroxydodecanoic acid

Synonym(s): 3-Hydroxy lauric acid



CAS Registry Number: 1883-13-2

Molecular Formula: C₁₂H₂₄O₃

Molecular Weight: 216.32

Accurate Mass: 216.172545

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

>>Variant: (R)-form

CAS Registry Number: 28254-78-6

Molecular Formula: C₁₂H₂₄O₃

Molecular Weight: 216.32

Accurate Mass: 216.172545

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Biological Source: Hydrol. prod. of Isariin [BCR15-L](#). Present in lipids of *Serratia marcescens* and *Azotobacter agilis*

Melting Point: Mp 62.5-63.3°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -15.2$ (c, 1.6 in CHCl₃)

>>Variant: (S)-form

CAS Registry Number: 45162-48-9

Molecular Formula: C₁₂H₂₄O₃

Molecular Weight: 216.32

Accurate Mass: 216.172545

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Melting Point: Mp 61-63.3°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +14.4$ (c, 2.8 in CHCl₃)

>>Variant: (±)-form

CAS Registry Number: 53941-38-1

Molecular Formula: C₁₂H₂₄O₃

Molecular Weight: 216.32

Accurate Mass: 216.172545

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Melting Point: Mp 70-70.5°

Sigma: H3398

References:

Vining, L.C., *Can. J. Chem.*, 1962, **40**, 1579

Rietschel, E.T. *et al.*, *J. Bacteriol.*, 1975, **122**, 1180

Barbosa, H.R. *et al.*, *Rev. Microbiol.*, 1975, **6**, 1, (*isol*)

Hiramatsu, T. *et al.*, *Can. J. Microbiol.*, 1976, **22**, 731, (*isol*)

Tahara, S. *et al.*, *Agric. Biol. Chem.*, 1978, **42**, 879, (*biosynth*)

Kawahara, K. *et al.*, *Biochim. Biophys. Acta*, 1979, **572**, 1, (*biosynth*)