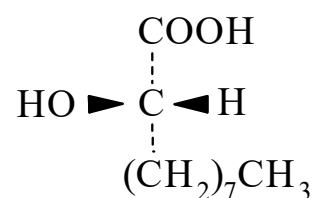




>>Entry Name: 2-Hydroxydecanoic acid

Synonym(s): 2-Hydroxycapric acid



CAS Registry Number: 5393-81-7

Related CAS Registry Numbers(s): 70267-24-2 71271-24-4 139563-63-6

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Sigma: H6271

>>Variant: (R)-form

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

>>Derivative: Nitrile

Synonym(s): 1-Cyano-1-nonanol

CAS Registry Number: 108963-75-3

Molecular Formula: C₁₀H₁₉NO

Molecular Weight: 169.266

Accurate Mass: 169.146664

Percentage Composition: C 70.96%; H 11.31%; N 8.27%; O 9.45%

Boiling Point: Bp_{0.001} 77-80°

Optical Rotation: [α]_D²³+10.3 (c, 0.5 in CH₂Cl₂)

>>Variant: (S)-form

CAS Registry Number: 70267-29-7

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Physical Description: Cryst. (diisopropyl ether)

Melting Point: Mp 77-78°

Optical Rotation: [α]_D²⁴+5.3 (c, 8.6 in CHCl₃)

>>Derivative: Me ester

CAS Registry Number: 95055-97-3

Molecular Formula: C₁₁H₂₂O₃

Molecular Weight: 202.293

Accurate Mass: 202.156895

Percentage Composition: C 65.31%; H 10.96%; O 23.73%

Physical Description: Oil

Boiling Point: Bp₂₂ 152-155°. Bp₄ 95-96°

Optical Rotation: [α]_D²²+3.1 (neat) (93% ee)

>>Variant: (±)-form

CAS Registry Number: 37639-46-6

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Physical Description: Cryst.

Melting Point: Mp 70-71°

References: