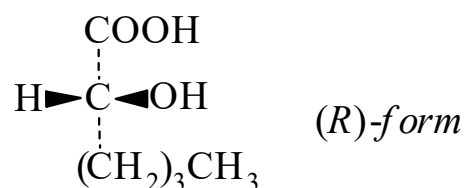




>>Entry Name: 2-Hydroxyhexanoic acid, 9CI

Synonym(s): 2-Hydroxycaproic acid



CAS Registry Number: 6064-63-7

Molecular Formula: $\text{C}_6\text{H}_{12}\text{O}_3$

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Aldrich: 21980-0

Sigma: H6876

>>Variant: (R)-form

CAS Registry Number: 43201-07-6

Molecular Formula: $\text{C}_6\text{H}_{12}\text{O}_3$

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Optical Rotation: $[\alpha]_{\text{D}}^{25} +38.8$

Other Data: Sign of opt. rotn. variable

>>Variant: (S)-form

Molecular Formula: $\text{C}_6\text{H}_{12}\text{O}_3$

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Biological Source: Prod. by a *Streptomyces* sp.

Physical Description: Prisms (Et_2O)

Melting Point: Mp 60°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -4.68$ (EtOH). $[\alpha]_{\text{D}}^{25} -15.3$ (c, 1 in 1M NaOH)

Solubility: Sol. H_2O

>>Variant: ($\pm$)-form

CAS Registry Number: 636-36-2

Molecular Formula: $\text{C}_6\text{H}_{12}\text{O}_3$

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Physical Description: Prisms (Et_2O)

Melting Point: Mp 60°

Solubility: V. sol. H_2O

>>Derivative: Et ester

CAS Registry Number: 52089-55-1

Molecular Formula: $\text{C}_8\text{H}_{16}\text{O}_3$

Molecular Weight: 160.213

Accurate Mass: 160.109945

Percentage Composition: C 59.98%; H 10.07%; O 29.96%

Boiling Point: Bp 195°

Aldrich: 23258-0

Fluka: 55000