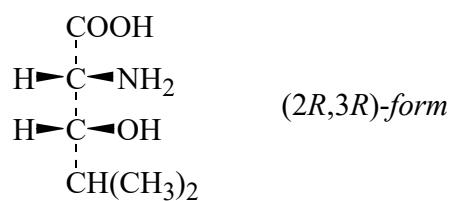




>>Entry Name: 2-Amino-3-hydroxy-4-methylpentanoic acid

Synonym(s): 3-Hydroxyleucine, 9CI



CAS Registry Number: 6645-45-0

Related CAS Registry Numbers(s): 28908-11-4 35016-61-6 58532-09-5 71264-41-0 81202-41-7 87421-21-4

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_3$

Molecular Weight: 147.174

Accurate Mass: 147.089544

Percentage Composition: C 48.97%; H 8.90%; N 9.52%; O 32.61%

>>Variant: (2R,3R)-form

Synonym(s): (–)-erythro-form

CAS Registry Number: 87421-24-7

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_3$

Molecular Weight: 147.174

Accurate Mass: 147.089544

Percentage Composition: C 48.97%; H 8.90%; N 9.52%; O 32.61%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 218-220°

Optical Rotation: $[\alpha]_{\text{D}}^{26} -37$ (c, 1.0 in H_2O)

>>Variant: (2R,3S)-form

Synonym(s): (+)-threo-form

CAS Registry Number: 87421-23-6

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_3$

Molecular Weight: 147.174

Accurate Mass: 147.089544

Percentage Composition: C 48.97%; H 8.90%; N 9.52%; O 32.61%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 213-214°

Optical Rotation: $[\alpha]_{\text{D}}^{27} +3.5$ (c, 1.0 in H_2O)

>>Derivative: Me ester

CAS Registry Number: 87421-19-0

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}_3$

Molecular Weight: 161.2

Accurate Mass: 161.105194

Percentage Composition: C 52.16%; H 9.38%; N 8.69%; O 29.78%

Optical Rotation: $[\alpha]_{\text{D}}^{24} +26$ (c, 1.0 in CHCl_3)

>>Variant: (2S,3R)-form

Synonym(s): (–)-threo-form

CAS Registry Number: 10148-71-7

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_3$

Molecular Weight: 147.174

Accurate Mass: 147.089544

Percentage Composition: C 48.97%; H 8.90%; N 9.52%; O 32.61%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 213-216°

Optical Rotation: $[\alpha]_{\text{D}} -3.5$ (c, 1.0 in H_2O)