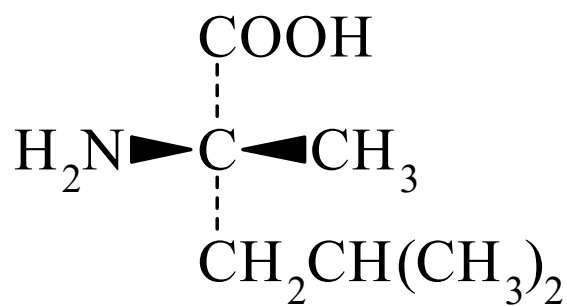




>>Entry Name: 2-Amino-2,4-dimethylpentanoic acid

Synonym(s): 2-Methylleucine, 9Cl. 2,4-Dimethylnorvaline. 2-Amino-2-methylisocaproic acid



(S)-form

CAS Registry Number: 5632-91-7

Related CAS Registry Numbers(s): 29589-03-5 88376-09-4 90104-01-1 90104-03-3

Molecular Formula: C₇H₁₅NO₂

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 105743-53-1

Molecular Formula: C₇H₁₅NO₂

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Optical Rotation: [α]_D²⁰+34.2 (c, 3 in H₂O)

>>Derivative: Me ester

CAS Registry Number: 90104-02-2

Molecular Formula: C₈H₁₇NO₂

Molecular Weight: 159.228

Accurate Mass: 159.125929

Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%

Boiling Point: Bp₁₂ 70-80°

>>Variant: (±)-form

CAS Registry Number: 144-24-1

Molecular Formula: C₇H₁₅NO₂

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Physical Description: Needles

Boiling Point: Subl. 203°

Sigma: M4142

>>Derivative: Hydrochloride

Melting Point: Mp 85-86°

Other Data: Softens at 83°

>>Derivative: N²-Benzoyl

Physical Description: Cryst.

Melting Point: Mp 179-180°

>>Derivative: Et ester

Molecular Formula: C₉H₁₉NO₂

Molecular Weight: 173.255

Accurate Mass: 173.141579

Percentage Composition: C 62.39%; H 11.05%; N 8.08%; O 18.47%

Boiling Point: Bp₁₂ 78-80°