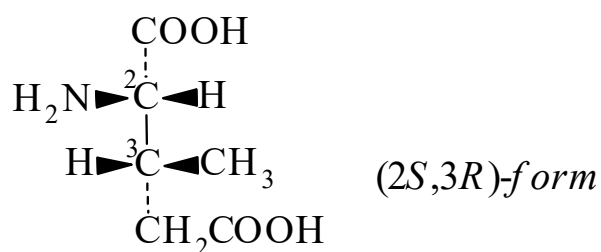




>>Entry Name: 2-Amino-3-methylpentanedioic acid

Synonym(s): 3-Methylglutamic acid, 9CI. β -Methylglutamic acid



CAS Registry Number: 2445-97-8

Related CAS Registry Numbers(s): 137569-33-6

Molecular Formula: C₆H₁₁NO₄

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

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

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

CAS Registry Number: 33511-69-2

Molecular Formula: C₆H₁₁NO₄

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

Melting Point: Mp 166-168°

Optical Rotation: $[\alpha]_D +22.6$ (c, 1.03 in 6*M* HCl)

>>Derivative: *N*-Benzyloxycarbonyl, di-Me ester

CAS Registry Number: 137569-41-6

Molecular Formula: C₁₆H₂₁NO₆

Molecular Weight: 323.345

Accurate Mass: 323.136889

Percentage Composition: C 59.43%; H 6.55%; N 4.33%; O 29.69%

Optical Rotation: $[\alpha]_D^{22} +17$ (c, 1.19 in CHCl₃)

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

Synonym(s): (+)-*erythro*-form

CAS Registry Number: 33511-70-5

Molecular Formula: C₆H₁₁NO₄

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

Physical Description: Cryst. + &3qu;H₂O

Melting Point: Mp 169-171°

Optical Rotation: $[\alpha]_D^{25} +42.8$ (c, 0.97 in 6*M* HCl)

>>Variant: (2*RS*,3*RS*)-form

Synonym(s): ($\pm$)-*erythro*-form

CAS Registry Number: 76318-75-7

Molecular Formula: C₆H₁₁NO₄

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

Physical Description: Needles (H₂O)

Melting Point: Mp 172.5-173.5°