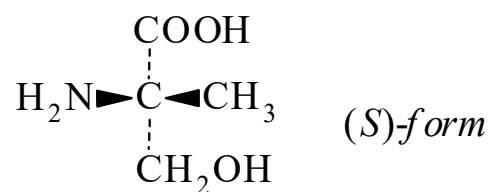




>>Entry Name: 2-Amino-3-hydroxy-2-methylpropanoic acid

Synonym(s): 2-Methylserine, 9Cl, 8Cl. α -Methylserine



CAS Registry Number: 3398-40-1

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Rare Chemicals Library: S35353-1

>>Variant: (*R*)-form

CAS Registry Number: 81132-44-7

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Melting Point: Mp 242-245 dec. $^\circ$

Optical Rotation: $[\alpha]_{\text{D}}^{20} -6.2$ (c, 1 in H_2O)

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 16820-18-1

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Biological Source: Constit. of *Sphagnum palustre*. Component of Amicetin [CKN27-L](#)

Melting Point: Mp 264 dec. $^\circ$

Optical Rotation: $[\alpha]_{\text{D}}^{22.5} +6.3$ (c, 1 in H_2O)

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

CAS Registry Number: 5424-29-3

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 255 $^\circ$. Mp 268-272 $^\circ$

Sigma: M6877

>>Derivative: *O,N*-Di-Ac

Molecular Formula: $\text{C}_8\text{H}_{13}\text{NO}_5$

Molecular Weight: 203.194

Accurate Mass: 203.079374

Percentage Composition: C 47.29%; H 6.45%; N 6.89%; O 39.37%

Physical Description: Pillars

Melting Point: Mp 183 $^\circ$

References: