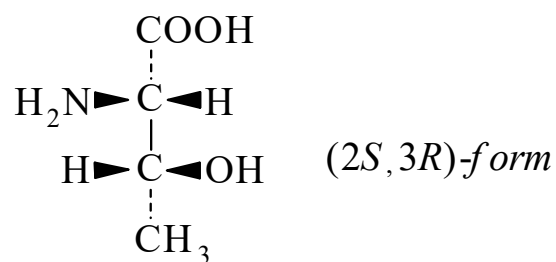




>>Entry Name: 2-Amino-3-hydroxybutanoic acid

ENTRY UNDER REVIEW

Synonym(s): Threonine, 9Cl. Thr



CAS Registry Number: 36676-50-3

Related CAS Registry Numbers(s): 2676-21-3 4385-90-4 62076-66-8 71292-23-4

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%

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

Synonym(s): D-Allothreonine

CAS Registry Number: 24830-94-2

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: Component of *Mycobacterium* peptidolipids

Melting Point: Mp 237-239°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -37.8$ (c, 1.0 in 1M HCl)

Aldrich: 21027-7

Fluka: 5756

Sigma: T3013

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

Synonym(s): D-Threonine

CAS Registry Number: 632-20-2

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 251-252°

Optical Rotation: $[\alpha]_{\text{D}}^{26} +28.4$ (H_2O)

Aldrich: 28732-6

Fluka: 89190

Rare Chemicals Library: S57910-6

Sigma: T8250

>>Derivative: N-Formyl

Molecular Formula: $\text{C}_5\text{H}_9\text{NO}_4$

Molecular Weight: 147.13

Accurate Mass: 147.053159

Percentage Composition: C 40.82%; H 6.17%; N 9.52%; O 43.50%

Melting Point: Mp 164.5°

Optical Rotation: $[\alpha]_{\text{D}} -11.9$