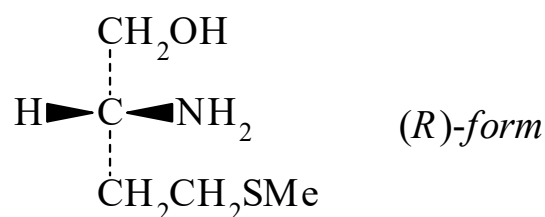




>>Entry Name: 2-Amino-4-(methylthio)-1-butanol, 9CI

Synonym(s): 2-Amino-5-thia-1-hexanol. Methioninol



CAS Registry Number: 502-83-0

Molecular Formula: $\text{C}_5\text{H}_{13}\text{NOS}$

Molecular Weight: 135.23

Accurate Mass: 135.071784

Percentage Composition: C 44.41%; H 9.69%; N 10.36%; O 11.83%; S 23.71%

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 87206-44-8

Molecular Formula: $\text{C}_5\text{H}_{13}\text{NOS}$

Molecular Weight: 135.23

Accurate Mass: 135.071784

Percentage Composition: C 44.41%; H 9.69%; N 10.36%; O 11.83%; S 23.71%

Physical Description: Liq.

Optical Rotation: $[\alpha]_{\text{D}}^{20} +14.06$ (neat)

Aldrich: 47001-5

>>Derivative: Hydrochloride

Optical Rotation: $[\alpha]_{\text{D}}^{20} +13.52$ (H_2O)

>>Derivative: O,N-Bis(4-nitrobenzoyl)

Melting Point: Mp 173-174°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +11.3$ (THF)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 2899-37-8

Molecular Formula: $\text{C}_5\text{H}_{13}\text{NOS}$

Molecular Weight: 135.23

Accurate Mass: 135.071784

Percentage Composition: C 44.41%; H 9.69%; N 10.36%; O 11.83%; S 23.71%

Physical Description: Oil that slowly solidified

Optical Rotation: $[\alpha]_{\text{D}}^{21} -12.7$ (c, 1.4 in EtOH)

Aldrich: 86023-9

Fluka: 64398

Sigma: M6516

>>Derivative: Oxalate (1:2)

Physical Description: Needles (EtOH)

Melting Point: Mp 161-161.5 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{24} +6.4$ (c, 0.72 in H_2O)

>>Derivative: O,N-Bis(4-nitrobenzoyl)

Optical Rotation: $[\alpha]_{\text{D}}^{22} +5.9$ (c, 0.372 in dioxan)