



Molecular Formula: C₁₁H₁₃NO₄
Molecular Weight: 223.228
Accurate Mass: 223.084459
Percentage Composition: C 59.19%; H 5.87%; N 6.27%; O 28.67%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 147-148°
Optical Rotation: [α]_D²⁶+25.1

>>Derivative: *N*-Me

CAS Registry Number: 2812-28-4

Molecular Formula: C₅H₁₁NO₃
Molecular Weight: 133.147
Accurate Mass: 133.073894
Percentage Composition: C 45.10%; H 8.33%; N 10.52%; O 36.05%
Biological Source: Component of Stendomycin [CKS73-V](#)

>>Derivative: Me ether

CAS Registry Number: 4144-02-9
Molecular Formula: C₅H₁₁NO₃
Molecular Weight: 133.147
Accurate Mass: 133.073894
Percentage Composition: C 45.10%; H 8.33%; N 10.52%; O 36.05%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 214-216°
Optical Rotation: [α]_D -37.8
Fluka: 69405
Sigma: M1630

>>Derivative: *N*-(2,4-Dinitrophenyl)

Physical Description: Cryst. (Et₂O/petrol)
Melting Point: Mp 145°
Optical Rotation: [α]_D +106 (4% NaHCO₃)

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

Synonym(s): Allothreonine

CAS Registry Number: 28954-12-3
Molecular Formula: C₄H₉NO₃
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 269-270 dec.°
Optical Rotation: [α]_D²⁰+32.8 (c, 1.0 in 1*M* HCl)
pKa Value: p*K*_{a1} 2.11; p*K*_{a2} 9.1 (25°)

Aldrich: 21026-9
Fluka: 5753
Sigma: T2888

>>Derivative: *N*-Ac

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 153-154°