



Percentage Composition: C 54.72%; H 6.71%; N 4.91%; O 22.43%; S 11.24%

Melting Point: Mp 130-132°

>>**Derivative:** *N*-Me

CAS Registry Number: 39554-61-5

Melting Point: Mp 290-291°

Optical Rotation: $[\alpha]_D^{20} -31$ (c, 1 in H₂O)

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

Synonym(s): D-*threo*-form. D-Alloisoleucine

CAS Registry Number: 1509-35-9

Molecular Formula: C₆H₁₃NO₂

Molecular Weight: 131.174

Accurate Mass: 131.094629

Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%

Melting Point: Mp 274-275 dec.°

Optical Rotation: $[\alpha]_D^{25} -15.6$ (c, 2 in H₂O). $[\alpha]_D -38.4$ (c, 4 in 6*M* HCl)

pKa Value: p*K*_{a1} 2.2; p*K*_{a2} 9.62 (25°, H₂O)

Fluka: 5705

Sigma: I0380

>>**Derivative:** *N*-Formyl

Melting Point: Mp 126°

Optical Rotation: $[\alpha]_D^{20} -25.2$ (EtOH)

>>**Derivative:** *N*-Ac

CAS Registry Number: 54831-20-8

Melting Point: Mp 156°

Optical Rotation: $[\alpha]_D^{25} -21.5$ (c, 2 in EtOH)

Sigma: A0501

>>**Derivative:** *N*-Benzenesulfonyl

Melting Point: Mp 147-148°

Optical Rotation: $[\alpha]_D^{20} -30.7$ (EtOH)