



Optical Rotation: $[\alpha]_{\text{D}}^{25} +21.6$ (c, 2.5 in EtOH)

>> **Derivative:** *tert*-Butyl ester; hydrochloride

CAS Registry Number: 42031-13-0

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 173°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +19.8$ (c, 2 in EtOH)

>> **Derivative:** Benzyl ester

CAS Registry Number: 1738-69-8

Molecular Formula: C₁₃H₁₉NO₂

Molecular Weight: 221.299

Accurate Mass: 221.141579

Percentage Composition: C 70.56%; H 8.65%; N 6.33%; O 14.46%

Physical Description: No phys. props. reported

>> **Derivative:** Benzyl ester; hydrochloride

CAS Registry Number: 2462-35-3

Melting Point: Mp 128°

Optical Rotation: $[\alpha]_{\text{D}}^{30} -8$ (c, 2 in HCl)

>> **Derivative:** Amide

Synonym(s): 2-Amino-4-methylpentanamide, 9Cl. Leucine amide. Leucinamide

CAS Registry Number: 687-51-4

Molecular Formula: C₆H₁₄N₂O

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

Melting Point: Mp 254-256° (as hydrochloride)

Optical Rotation: $[\alpha]_{\text{D}}^{20} +10$ (c, 5 in H₂O)

>> **Derivative:** (2-Naphthyl)amide

Synonym(s): (*S*)-2-Amino-4-methyl-*N*-2-naphthalenylpentanamide, 9Cl

CAS Registry Number: 732-85-4

Molecular Formula: C₁₆H₂₀N₂O

Molecular Weight: 256.347

Accurate Mass: 256.157563

Percentage Composition: C 74.97%; H 7.86%; N 10.93%; O 6.24%

Melting Point: Mp 105-108°

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

CAS Registry Number: 1188-21-2

Molecular Formula: C₈H₁₅NO₃

Molecular Weight: 173.211

Accurate Mass: 173.105194

Percentage Composition: C 55.47%; H 8.73%; N 8.09%; O 27.71%

Melting Point: Mp 189-190°

Optical Rotation: $[\alpha]_{\text{D}}^{24} -40.2$ (Py). $[\alpha]_{\text{D}}^{24} -23.1$ (EtOH)

Aldrich: 44151-1

Fluka: 1260

Sigma: A1894

>> **Derivative:** *N*-(Chloroacetyl)