



**Sigma:** C1128

>>**Derivative:** *N*-Benzoyl

**CAS Registry Number:** 1466-83-7

**Molecular Formula:** C<sub>13</sub>H<sub>17</sub>NO<sub>3</sub>

**Molecular Weight:** 235.282

**Accurate Mass:** 235.120844

**Percentage Composition:** C 66.36%; H 7.28%; N 5.95%; O 20.40%

**Melting Point:** Mp 60° (hydrated). Mp 105-107° (anhyd.)

>>**Derivative:** *N*-(3,5-Dinitrobenzoyl)

**CAS Registry Number:** 7495-01-4

**Molecular Formula:** C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>O<sub>7</sub>

**Molecular Weight:** 325.277

**Accurate Mass:** 325.091002

**Percentage Composition:** C 48.00%; H 4.65%; N 12.92%; O 34.43%

**Use/Importance:** Used in chromatographic resoln. of enantiomers

**Melting Point:** Mp 186-188°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -14.3 (c, 3 in EtOH)

**Aldrich:** 25153-4

**Sigma:** D9770

>>**Derivative:** *N*-*tert*-Butyloxycarbonyl

>>**Derivative:** *N*-Benzyloxycarbonyl

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

**Synonym(s):** *N*-Methyllucine, 9Cl. 4-Methyl-2-(methylamino)pentanoic acid. 2-Methylaminoisocaproic acid

**CAS Registry Number:** 3060-46-6

**Molecular Formula:** C<sub>7</sub>H<sub>15</sub>NO<sub>2</sub>

**Molecular Weight:** 145.201

**Accurate Mass:** 145.110279

**Percentage Composition:** C 57.90%; H 10.41%; N 9.65%; O 22.04%

**Biological Source:** Residue present in antibiotics, e.g. Ilamycins, Sporidesmolides

**Physical Description:** Cryst. (Me<sub>2</sub>CO aq.)

**Melting Point:** Mp 200 subl.°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +21.4 (H<sub>2</sub>O). [ $\alpha$ ]<sub>D</sub> +31.3 (5*M* HCl)

**Sigma:** M2382

>>**Derivative:** *N*-Me, Me ester

**CAS Registry Number:** 35026-08-5

**Molecular Formula:** C<sub>8</sub>H<sub>17</sub>NO<sub>2</sub>

**Molecular Weight:** 159.228

**Accurate Mass:** 159.125929

**Percentage Composition:** C 60.35%; H 10.76%; N 8.80%; O 20.10%

**Melting Point:** Mp 126.5-127° (as hydrochloride)

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> +31.4 (c, 1 in EtOH)

>>**Derivative:** *N*-Me, *N*-*tert*-butyloxycarbonyl

**CAS Registry Number:** 53363-89-6

**Molecular Formula:** C<sub>12</sub>H<sub>23</sub>NO<sub>4</sub>

**Molecular Weight:** 245.318

**Accurate Mass:** 245.162709

**Percentage Composition:** C 58.75%; H 9.45%; N 5.71%; O 26.09%

**Melting Point:** Mp 56-57°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>26</sup> -24.6 (c, 0.5 in EtOH)

>>**Derivative:** *N*-Me, *N*-benzyloxycarbonyl