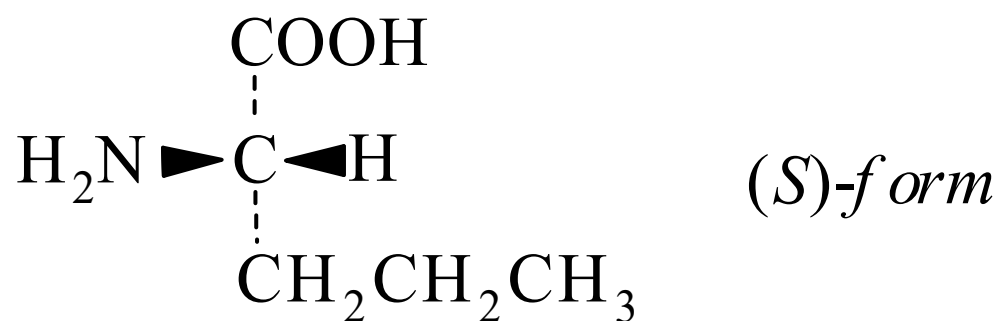




>>Entry Name: 2-Aminopentanoic acid

Synonym(s): Norvaline, 9Cl. 2-Aminovaleric acid



CAS Registry Number: 498-18-0

Molecular Formula: C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

>>Variant: (*R*)-form

Synonym(s): D-form

CAS Registry Number: 2013-12-9

Molecular Formula: C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Physical Description: Minute leaflets (H<sub>2</sub>O)

Melting Point: Mp 307° (sinters)

Optical Rotation: [α]<sub>D</sub><sup>20</sup> -24.2 (c, 10 in 20% HCl)

Aldrich: 85162-0

Fluka: 74660

Sigma: N7377

>>Derivative: Me ester

CAS Registry Number: 21685-17-6

Molecular Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>

Molecular Weight: 131.174

Accurate Mass: 131.094629

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

Physical Description: Liq.

Optical Rotation: [α]<sub>D</sub><sup>20</sup> -24.5 (c, 2.2 in CHCl<sub>3</sub>)

>>Derivative: *N*-Formyl

Molecular Formula: C<sub>6</sub>H<sub>11</sub>NO<sub>3</sub>

Molecular Weight: 145.158

Accurate Mass: 145.073894

Percentage Composition: C 49.65%; H 7.64%; N 9.65%; O 33.07%

Physical Description: Cryst.

Melting Point: Mp 136°

Optical Rotation: [α]<sub>D</sub><sup>18</sup> -2.1 (EtOH)

>>Derivative: *N*-Ac

CAS Registry Number: 57357-56-9

Molecular Formula: C<sub>7</sub>H<sub>13</sub>NO<sub>3</sub>

Molecular Weight: 159.185

Accurate Mass: 159.089544

Percentage Composition: C 52.82%; H 8.23%; N 8.80%; O 30.15%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 105°

Optical Rotation: [α]<sub>D</sub><sup>20</sup> +34.7 (c, 2 in H<sub>2</sub>O)