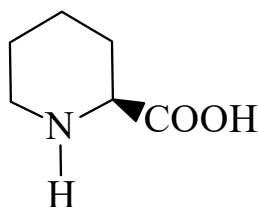




>>Entry Name: 2-Piperidinecarboxylic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): **Pipecolic acid**. Hexahydronicolinic acid. Pipecolinic acid. **Homoproline**‡



*(S)-form*

CAS Registry Number: 535-75-1

Related CAS Registry Numbers(s): 41994-45-0

Molecular Formula: C<sub>6</sub>H<sub>11</sub>NO<sub>2</sub>

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

>>Variant: (*R*)-form

Synonym(s): D-form

CAS Registry Number: 1723-00-8

Molecular Formula: C<sub>6</sub>H<sub>11</sub>NO<sub>2</sub>

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

Physical Description: Plates (EtOH)

Melting Point: Mp 270°

Optical Rotation:  $[\alpha]_{\text{D}}^{25} +24.5$

Aldrich: 26806-2

Fluka: 80617

Sigma: P0776

>>Derivative: Tartrate

Melting Point: Mp 187°

Optical Rotation:  $[\alpha]_{\text{D}}^{25} +18$  (c, 10 in H<sub>2</sub>O)

>>Derivative: Amide

CAS Registry Number: 78088-51-4

Molecular Formula: C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O

Molecular Weight: 128.174

Accurate Mass: 128.094963

Percentage Composition: C 56.23%; H 9.44%; N 21.86%; O 12.48%

Melting Point: Mp 162-163°

Optical Rotation:  $[\alpha]_{\text{D}} +31.6$  (c, 2.3 in EtOH)

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 3105-95-1

Molecular Formula: C<sub>6</sub>H<sub>11</sub>NO<sub>2</sub>

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

Biological Source: Present in beans and other legumes, and in lesser quantities in other plants including barley, hops, malt, teak and mushrooms

Physical Description: Needles (MeOH/Et<sub>2</sub>O)

Melting Point: Mp 259-260°

Optical Rotation:  $[\alpha]_{\text{D}}^{20} -30.6$  (c, 1 in H<sub>2</sub>O)

Solubility: BERDY SOL: Sol. H<sub>2</sub>O

Aldrich: 23775-2

Fluka: 80615

Sigma: P2519