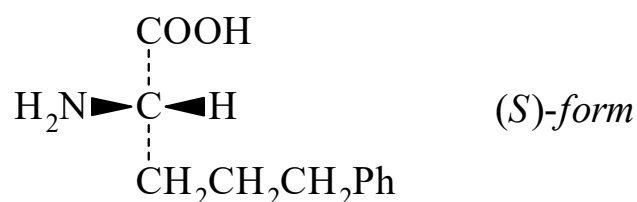




>>Entry Name: 2-Amino-5-phenylpentanoic acid, 9Cl

Synonym(s):  $\alpha$ -Aminobenzenepentanoic acid, 9Cl. 5-Phenylnorvaline



CAS Registry Number: 2046-19-7

Related CAS Registry Numbers(s): 36061-08-2 88767-79-7 90291-43-3

Molecular Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>2</sub>

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

>>Variant: (*S*)-form

Synonym(s): L-form

Molecular Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>2</sub>

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Source/Synthesis: A constituent amino acid in AM-toxins

Physical Description: Cryst.

Melting Point: Mp 227-229°

Optical Rotation:  $[\alpha]_D^{20} +39.2$  (c, 1.16 in 5*M* HCl-DMF)

>>Derivative: Me ester; hydrochloride

CAS Registry Number: 87053-89-2

Physical Description: Cryst.

Melting Point: Mp 115°

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

>>Variant: ( $\pm$ )-form

CAS Registry Number: 34993-02-7

Molecular Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>2</sub>

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

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

Melting Point: Mp 208-212 dec.°. Mp 239-240 dec.°

>>Derivative: Me ester

Molecular Formula: C<sub>12</sub>H<sub>17</sub>NO<sub>2</sub>

Molecular Weight: 207.272

Accurate Mass: 207.125929

Percentage Composition: C 69.54%; H 8.27%; N 6.76%; O 15.44%

Physical Description: Oil

>>Derivative: *N*-2-Naphthalenesulfonyl

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 83°

#### References:

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Gardner, P.D. *et al.*, *J.O.C.*, 1957, **22**, 1704, (*synth*)

Bashah, A. *et al.*, *J.O.C.*, 1972, **37**, 2916, (*synth*)

Izumiya, N. *et al.*, *Bull. Chem. Soc. Jpn.*, 1976, **49**, 3280; 1983, **56**, 1245, (*synth*)

Asano, Y. *et al.*, *J.O.C.*, 1990, **55**, 5567, (*enzymic synth, ms, ir*)

Abramovitch, R.A. *et al.*, *Synth. Commun.*, 1995, **25**, 1, (*Me ester*)