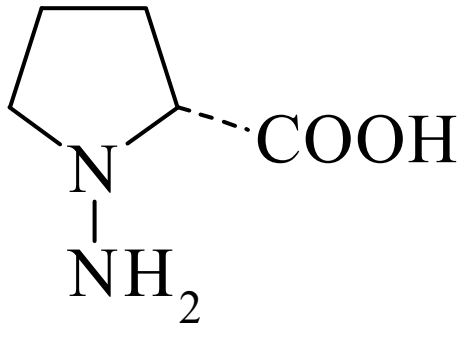
>>**Entry Name: 1-Amino-2-pyrrolidinecarboxylic acid**
Synonym(s): 1-Aminoproline, 9CI



(*R*)-*form*

Molecular Formula: $C_5H_{10}N_2O_2$
Molecular Weight: 130.146
Accurate Mass: 130.074228
Percentage Composition: C 46.14%; H 7.74%; N 21.52%; O 24.59%
Use/Importance: Vitamin B_6 antagonist. Antibacterial
Calculated Log P Data: Log P –0.97 (calc)

>>**Variant:** (*R*)-form
Synonym(s): D-form

CAS Registry Number: 10139-05-6

Molecular Formula: $C_5H_{10}N_2O_2$
Molecular Weight: 130.146
Accurate Mass: 130.074228
Percentage Composition: C 46.14%; H 7.74%; N 21.52%; O 24.59%

Physical Description: Pale yellow cryst. (EtOH)
Melting Point: Mp 155 dec.°
Optical Rotation: $[\alpha]_D^{25}$+113 (c, 2 in 0.5M HCl)

>>**Derivative:** *N*-γ-L-Glutamyl
Synonym(s): 1-[*N*-(γ-L-Glutamyl)amino]-D-proline. **Linatine**

CAS Registry Number: 10139-06-7

Molecular Formula: $C_{10}H_{17}N_3O_5$
Molecular Weight: 259.261
Accurate Mass: 259.116822
Percentage Composition: C 46.33%; H 6.61%; N 16.21%; O 30.86%
Biological Source: Isol. from *Linum usitatissimum* (flax)
Physical Description: Amorph. solid
Optical Rotation: $[\alpha]_D^{24}$+46.4 (c, 2.75 in H_2O)
Solubility: BERDY SOL: Sol. H_2O; poorly sol. butanol, hexane

>>**Variant:** (*S*)-form
Synonym(s): L-form

CAS Registry Number: 15265-22-2
Molecular Formula: $C_5H_{10}N_2O_2$
Molecular Weight: 130.146
Accurate Mass: 130.074228
Percentage Composition: C 46.14%; H 7.74%; N 21.52%; O 24.59%
Melting Point: Mp 155-156°
Optical Rotation: $[\alpha]_D^{24}$–111 (c, 1.6 in 0.5*M* HCl)

References:

Parsons, J.L. *et al.*, *Antimicrob. Agents Chemother.*, 1967, 415
Klosterman, H.J. *et al.*, *Biochemistry*, 1967, **6**, 170, *(synth)*
Achiwa, K. *et al.*, *Tet. Lett.*, 1974, 1799, *(synth)*
Klosterman, H.J., *Methods Enzymol.*, 1979, **62**, 483, *(props)*