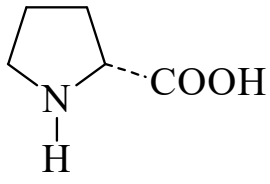
>>**Entry Name: Proline,** 9CI
ENTRY UNDER REVIEW
Synonym(s): 2-Pyrrolidinecarboxylic acid. Tetrahydro-2-pyrrolecarboxylic acid. Pro



(*R*)-*form*

CAS Registry Number: 7005-20-1
Related CAS Registry Numbers(s): 16395-58-7

Molecular Formula: $C_5H_9NO_2$
Molecular Weight: 115.132
Accurate Mass: 115.063329
Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

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

CAS Registry Number: 344-25-2

Molecular Formula: $C_5H_9NO_2$
Molecular Weight: 115.132
Accurate Mass: 115.063329
Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%
Physical Description: Cryst. (EtOH/Et_2O)
Melting Point: Mp 206° (215-220° dec.)
Optical Rotation: $[\alpha]_D^{20}$+86.2 (c, 1.0 in H_2O) (100% op). $[\alpha]_D$ +60.4 (c, 1 in 5*M* HCl)
Aldrich: 85891-9
Fluka: 81705
Sigma: P4266

>>**Derivative:** Me ester

CAS Registry Number: 43041-12-9
Molecular Formula: $C_6H_{11}NO_2$
Molecular Weight: 129.158
Accurate Mass: 129.078979
Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{25}$+34

>>**Derivative:** Et ester

CAS Registry Number: 96163-72-3
Molecular Formula: $C_7H_{13}NO_2$
Molecular Weight: 143.185
Accurate Mass: 143.094629
Percentage Composition: C 58.72%; H 9.15%; N 9.78%; O 22.35%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{20}$+85.6 (c, 2 in H_2O)

>>**Derivative:** Amide
Synonym(s): 2-Pyrrolidinecarboxamide, 9CI. Prolinamide

CAS Registry Number: 62937-45-5
Molecular Formula: $C_5H_{10}N_2O$
Molecular Weight: 114.147
Accurate Mass: 114.079313
Percentage Composition: C 52.61%; H 8.83%; N 24.54%; O 14.02%
Physical Description: Cryst.
Melting Point: Mp 97-98°

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