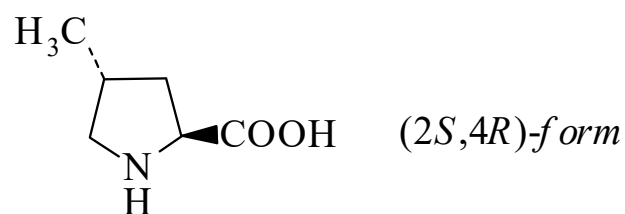




>>Entry Name: 4-Methyl-2-pyrrolidinecarboxylic acid

ENTRY UNDER REVIEW

Synonym(s): 4-Methylproline, 9CI



Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

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

>>Variant: (2*R*,4*R*)-form

Synonym(s): D-*cis*-form

CAS Registry Number: 31137-95-8

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

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

Melting Point: Mp 238-239 dec.°

Optical Rotation: [α]_D²⁰+85.2 (c, 1.68 in H₂O). [α]_D+47.9 (c, 1.28 in 3*M* HCl)

>>Variant: (2*S*,4*R*)-form

Synonym(s): L-*trans*-form

CAS Registry Number: 23009-50-9

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

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

Biological Source: Constit. of young apple fruit and perry

Physical Description: Needles (EtOH/Et₂O)

Melting Point: Mp 239-240 dec.°

Optical Rotation: [α]_D¹⁸−56.6 (c, 1.03 in H₂O). [α]_D²⁰−23.9 (c, 1.54 in 3*M* HCl)

>>Variant: (2*S*,4*S*)-form

Synonym(s): L-*cis*-form

CAS Registry Number: 6734-41-4

Molecular Formula: C₆H₁₁NO₂

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 hydrolysate of antibiotic ICI 13959

Physical Description: Cryst. (EtOH/Et₂O)

Optical Rotation: [α]_D¹⁸−83 (c, 0.53 in H₂O). [α]_D−43 (c, 0.51 in 3*M* HCl)

References:

Dalby, J.S. *et al.*, *J.C.S.*, 1962, 4387, (*synth*)

Wang, Q. *et al.*, *Tetrahedron*, 1998, **54**, 15759-15780, (*2S,4R*-form, *synth*, *ir*, *pmr*, *cmr*)