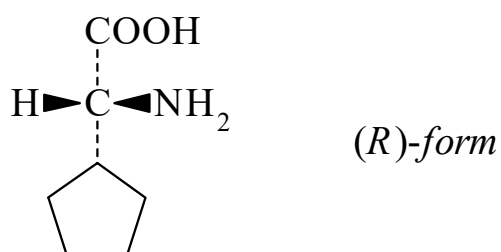




>>Entry Name: 2-Amino-2-cyclopentylacetic acid

Synonym(s): α -Aminocyclopentaneacetic acid, 9CI, 8CI. 2-Cyclopentylglycine. Cyclopentaneglycine



CAS Registry Number: 933-95-9

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%

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 2521-86-0

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: Cryst. (EtOH aq.)

Melting Point: Mp 282-286 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{25} -17$ (c, 0.3 in 5M HCl)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 2521-84-8

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: Cryst. (EtOH aq.)

Melting Point: Mp 280-284 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{25} +17.8$ (c, 0.4 in 5M HCl)

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

CAS Registry Number: 2521-82-6

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: Cryst. (EtOH aq.)

Melting Point: Mp 298-299 (286-288 $^{\circ}$) dec. $^{\circ}$

References:

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Eister, K. *et al.*, *Coll. Czech. Chem. Comm.*, 1966, **31**, 4563, (*synth, resoln*)

Ali, M. *et al.*, *Synth. Commun.*, 1976, **6**, 227, (*synth*)

Williams, R.M. *et al.*, *J.A.C.S.*, 1988, **110**, 1547, (*synth, ir, pmr*)