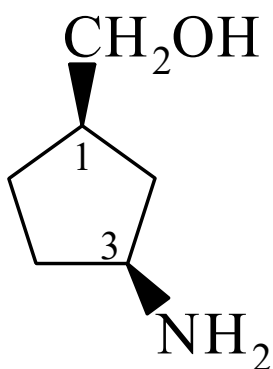




>>Entry Name: 3-Aminocyclopentanemethanol, 9CI

Synonym(s): 1-Amino-3-hydroxymethylcyclopentane



(1*R*,3*S*)-form

CAS Registry Number: 123288-54-0

Related CAS Registry Numbers(s): 78795-20-7 102099-18-3 151214-31-2

Molecular Formula: C₆H₁₃NO

Molecular Weight: 115.175

Accurate Mass: 115.099714

Percentage Composition: C 62.57%; H 11.38%; N 12.16%; O 13.89%

Use/Importance: Precursor to synth. of carbocyclic nucleosides

>>Variant: (1*R*,3*S*)-form

CAS Registry Number: 117957-62-7

Molecular Formula: C₆H₁₃NO

Molecular Weight: 115.175

Accurate Mass: 115.099714

Percentage Composition: C 62.57%; H 11.38%; N 12.16%; O 13.89%

>>Derivative: Hydrochloride

CAS Registry Number: 147780-38-9

Physical Description: Glass

Optical Rotation: $[\alpha]_{\text{D}}^{20} -7.4$ (c, 2.7 in 1*M* HCl)

>>Derivative: *N*-Phenylsulfonyl

CAS Registry Number: 151112-65-1

Optical Rotation: $[\alpha]_{\text{D}}^{25} -4.5$ (c, 1.5 in CHCl₃)

>>Variant: (1*S*,3*S*)-form

Molecular Formula: C₆H₁₃NO

Molecular Weight: 115.175

Accurate Mass: 115.099714

Percentage Composition: C 62.57%; H 11.38%; N 12.16%; O 13.89%

>>Derivative: Hydrochloride

CAS Registry Number: 147780-45-8

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{20} -2.7$ (c, 2.2 in 1*M* HCl)

References:

Hronowski, L.J.J. *et al.*, *Can. J. Chem.*, 1988, **66**, 61, (*synth*, *pmr*)

Bergmeier, S.C. *et al.*, *J.O.C.*, 1993, **58**, 2369; 5019, (*synth*, *pmr*, *cmr*)

Lee-Ruff, E. *et al.*, *J.O.C.*, 1996, **61**, 1547, (*1*R*3*S**-form, *synth*, *pmr*)