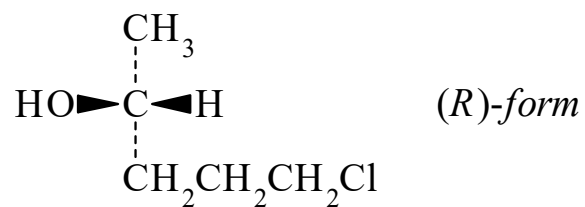




>>Entry Name: 5-Chloro-2-pentanol



CAS Registry Number: 15146-94-8

Molecular Formula: C₅H₁₁ClO

Molecular Weight: 122.594

Accurate Mass: 122.049842

Percentage Composition: C 48.99%; H 9.04%; Cl 28.92%; O 13.05%

>>Variant: (R)-form

CAS Registry Number: 76188-95-9

Molecular Formula: C₅H₁₁ClO

Molecular Weight: 122.594

Accurate Mass: 122.049842

Percentage Composition: C 48.99%; H 9.04%; Cl 28.92%; O 13.05%

Optical Rotation: $[\alpha]_{\text{D}}^{23} -14.9$ (c, 0.19 in CDCl₃) (93% ee)

>>Variant: (S)-form

CAS Registry Number: 99212-19-8

Molecular Formula: C₅H₁₁ClO

Molecular Weight: 122.594

Accurate Mass: 122.049842

Percentage Composition: C 48.99%; H 9.04%; Cl 28.92%; O 13.05%

Optical Rotation: $[\alpha]_{\text{D}} +15.03$ (CHCl₃) (98% ee)

>>Variant: (±)-form

CAS Registry Number: 69459-96-7

Molecular Formula: C₅H₁₁ClO

Molecular Weight: 122.594

Accurate Mass: 122.049842

Percentage Composition: C 48.99%; H 9.04%; Cl 28.92%; O 13.05%

Physical Description: Liq.

Boiling Point: Bp_{1.5} 62-64°

>>Derivative: 3,5-Dinitrobenzoyl

Physical Description: Cryst. (EtOH)

Melting Point: Mp 75°

References:

Wartski, L. *et al.*, *Bull. Soc. Chim. Fr.*, 1967, 1594, (*synth*)

Keinan, E. *et al.*, *J.A.C.S.*, 1986, **108**, 3474

Bradshaw, C.W. *et al.*, *J.O.C.*, 1992, **57**, 1526; 1531, (*synth*, *pmr*)