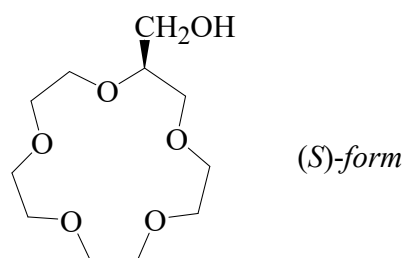




>>Entry Name: 2-(Hydroxymethyl)-15-crown-5

Synonym(s): 1,4,7,10,13-Pentaoxacyclopentadecane-2-methanol, 9Cl



CAS Registry Number: 75507-25-4

Molecular Formula: $C_{11}H_{22}O_6$

Molecular Weight: 250.291

Accurate Mass: 250.14164

Percentage Composition: C 52.79%; H 8.86%; O 38.35%

Use/Importance: Used for the synth. of modified crown ethers

Aldrich: 38842-4

Fluka: 55630

>>Variant: (S)-form

CAS Registry Number: 80004-03-1

Molecular Formula: $C_{11}H_{22}O_6$

Molecular Weight: 250.291

Accurate Mass: 250.14164

Percentage Composition: C 52.79%; H 8.86%; O 38.35%

Optical Rotation: $[\alpha]_D^{30} +6.5$ (neat)

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

Molecular Formula: $C_{11}H_{22}O_6$

Molecular Weight: 250.291

Accurate Mass: 250.14164

Percentage Composition: C 52.79%; H 8.86%; O 38.35%

Boiling Point: $B_{p1.5} 135^\circ$

Density: $d 1.17$

Refractive Index: $n_D^{20} 1.4790$

References:

Manecke, G. *et al.*, *Makromol. Chem. Rapid Commun.*, 1981, **2**, 569, (*synth, S-form*)

Dishong, D.M. *et al.*, *J.A.C.S.*, 1983, **105**, 586, (*synth, derivs, pmr*)

Ikeda, I. *et al.*, *Synthesis*, 1984, 73, (*synth, bibl*)

Gokel, G.W. *et al.*, *Cation Binding by Macrocycles*, (Eds., Inoue, Y. *et al*), M. Dekker, New York, 1990, 253, (*use, bibl*)