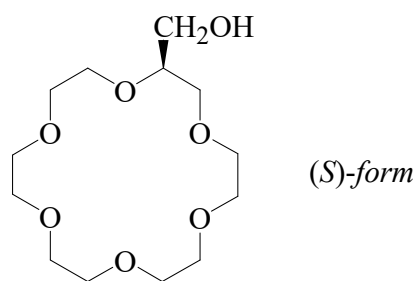




>>Entry Name: 2-(Hydroxymethyl)-18-crown-6

Synonym(s): 1,4,7,10,13,16-Hexaoxacyclooctadecane-2-methanol, 9CI



CAS Registry Number: 70069-04-4

Molecular Formula: $C_{13}H_{26}O_7$

Molecular Weight: 294.344

Accurate Mass: 294.167855

Percentage Composition: C 53.05%; H 8.90%; O 38.05%

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

Aldrich: 38844-0

Fluka: 55631

Rare Chemicals Library: S13271-3

>>Variant: (S)-form

CAS Registry Number: 80004-04-2

Molecular Formula: $C_{13}H_{26}O_7$

Molecular Weight: 294.344

Accurate Mass: 294.167855

Percentage Composition: C 53.05%; H 8.90%; O 38.05%

Optical Rotation: $[\alpha]_D^{30} +2.6$ (neat)

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

Molecular Formula: $C_{13}H_{26}O_7$

Molecular Weight: 294.344

Accurate Mass: 294.167855

Percentage Composition: C 53.05%; H 8.90%; O 38.05%

Boiling Point: $Bp_{0.5} 150^\circ$

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)

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)