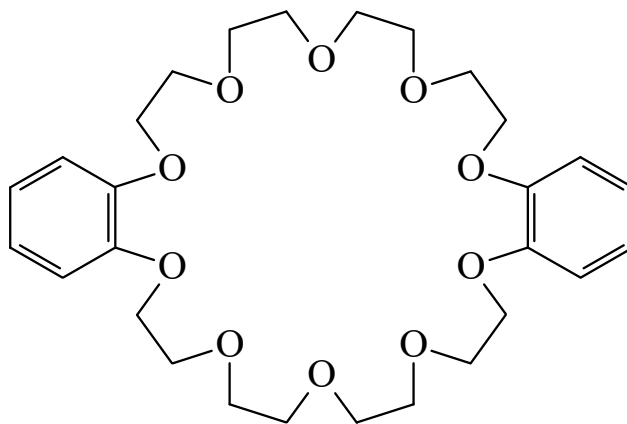




>>Entry Name: Dibenzo-30-crown-10

Synonym(s): 6,7,9,10,12,13,15,16,23,24,26,27,29,30,32,33-Hexadecahydrodibenzo[*b,q*][1,4,7,10,13,16,19,22,25,28]decaoxacyclotriacontin, 9CI



CAS Registry Number: 17455-25-3

Molecular Formula: C₂₈H₄₀O₁₀

Molecular Weight: 536.618

Accurate Mass: 536.26215

Percentage Composition: C 62.67%; H 7.51%; O 29.82%

Use/Importance: Used as 1% soln. in dipentyl phthalate in K-selective electrode (PVC membrane)

Physical Description: Cryst. (hexane/Et₂O)

Melting Point: Mp 104-105°

Solubility: Sol. hexane, Et₂O

Aldrich: 33251-8

Fluka: 33541

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 237C, (nmr)

Ryba, O. *et al.*, *J. Electroanal. Chem.*, 1973, **44**, 425, (synth)

Petranek, J. *et al.*, *Anal. Chim. Acta*, 1974, **72**, 375, (use)

Colquhoun, H.M. *et al.*, *J.C.S. Perkin 2*, 1985, 607, (synth, pmr)