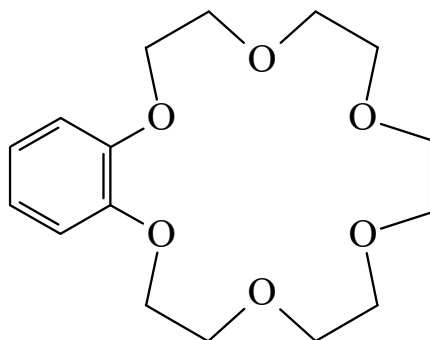




>>Entry Name: **Benzo-18-crown-6**

Synonym(s): 2,3,5,6,8,9,11,12,14,15-Decahydro-1,4,7,10,13,16-benzohexaoxacyclooctadecin, 9CI



CAS Registry Number: 14098-24-9

Molecular Formula: C₁₆H₂₄O₆

Molecular Weight: 312.362

Accurate Mass: 312.15729

Percentage Composition: C 61.52%; H 7.74%; O 30.73%

Use/Importance: Used for extraction-photometric detn. of K, Na

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 43-44°

Solubility: Sol. C₆H₆, toluene; spar. sol. H₂O

Aldrich: 37229-3

Fluka: 12338

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 236C, (nmr)

Motomizu, S. *et al.*, *Anal. Chim. Acta*, 1988, **214**, 289, (detn, K, Na)

Motomizu, S. *et al.*, *Analyst (London)*, 1988, **113**, 743, (detn, K)

Luis, S.V. *et al.*, *J. Chem. Res., Synop.*, 1990, 62, (synth, ir, pmr)