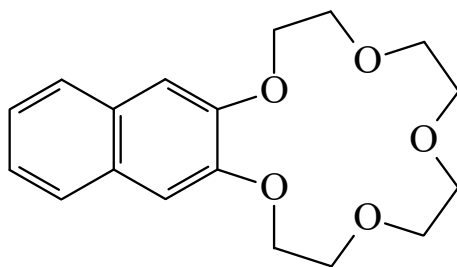




>>Entry Name: 2,3,5,6,8,9,11,12-Octahydronaphtho[2,3-*b*]-1,4,7,10,13-pentaoxacyclopentadecin, 9CI

Synonym(s): Naphtho-15-crown-5



CAS Registry Number: 17454-47-6

Molecular Formula: C₁₈H₂₂O₅

Molecular Weight: 318.369

Accurate Mass: 318.146725

Percentage Composition: C 67.91%; H 6.96%; O 25.13%

Use/Importance: Used as an ionophore in ion-selective electrodes (high selectivity for K over Na)

Physical Description: Cryst.

Melting Point: Mp 117.5-118.5°

References:

Pedersen, C.J., *J.A.C.S.*, 1967, **89**, 7017, (*synth*)

Yamauchi, M. *et al.*, *Anal. Chim. Acta*, 1982, **136**, 399, (*synth, detn, K*)

Czech, B. *et al.*, *J. Het. Chem.*, 1984, **21**, 341, (*synth, ir, pmr*)

Blair, T.L. *et al.*, *Anal. Chim. Acta*, 1989, **222**, 252, (*detn, K*)