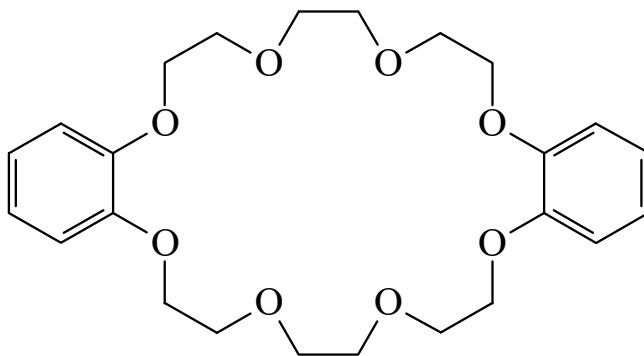




>>Entry Name: **Dibenzo-24-crown-8**

Synonym(s): 6,7,9,10,12,13,20,21,23,24,26,27-Dodecahydrodibenz[*b,n*][1,4,7,10,13,16,19,22]octaoxacyclotetracosin, 9Cl



CAS Registry Number: 14174-09-5

Molecular Formula: C₂₄H₃₂O₈

Molecular Weight: 448.512

Accurate Mass: 448.20972

Percentage Composition: C 64.27%; H 7.19%; O 28.54%

Use/Importance: Used for extraction and separation of alkali and alkaline-earth metals

Physical Description: Cryst.

Melting Point: Mp 103-105°. Mp 113-114°

Solubility: Sl. sol. H₂O, EtOH; sol. C₆H₆, CHCl₃, dioxan

Aldrich: 25319-7

Fluka: 33539

Sigma: D7779

References:

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

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1039B, (*ir*)

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

Dietrich, B. *et al.*, *Tet. Lett.*, 1969, **34**, 2885

Kolthoff, I.M., *Anal. Chem.*, 1979, **51**, 1R, (*rev*)