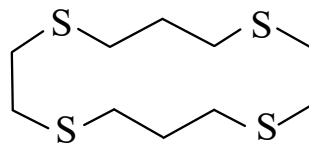




>>Entry Name: 1,4,8,11-Tetrathiacyclotetradecane, 9CI

Synonym(s): 14-Thiacrown-4



CAS Registry Number: 24194-61-4

Molecular Formula: $C_{10}H_{20}S_4$

Molecular Weight: 268.532

Accurate Mass: 268.04478

Percentage Composition: C 44.73%; H 7.51%; S 47.76%

Use/Importance: Used as 0.5mM 1,2-dichloroethane soln. for extraction-photometric detn. of Ag, Cu(II) (with use of ethyleosine as counter anion); as $CHCl_3$ soln. for extraction separation of Ag and Hg(II)

Physical Description: Cryst. (Me_2CO), needles (EtOH)

Melting Point: Mp 110-111°. Mp 119-120°

Solubility: Sol. EtOH, 1,2-dichloroethane, $CHCl_3$

Aldrich: 25072-4

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **1**, 437B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 272C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 358A, (*ir*)

Rosen, W. *et al.*, *J.A.C.S.*, 1969, **91**, 4694, (*synth*)

Ochrymowycz, L.A. *et al.*, *J.O.C.*, 1974, **39**, 2079, (*synth*)

de Simone, R.E. *et al.*, *J.A.C.S.*, 1976, **98**, 762, (*cryst struct*)

Sevdic, D. *et al.*, *J. Inorg. Nucl. Chem.*, 1980, **42**, 885, (*sepn, Ag, Hg*)

Buter, J. *et al.*, *J.O.C.*, 1981, **46**, 4481, (*synth*)

Saito, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 189, (*detn, Ag, Cu*)

Sekido, E. *et al.*, *Anal. Sci.*, 1988, **4**, 511, (*detn, Cu*)