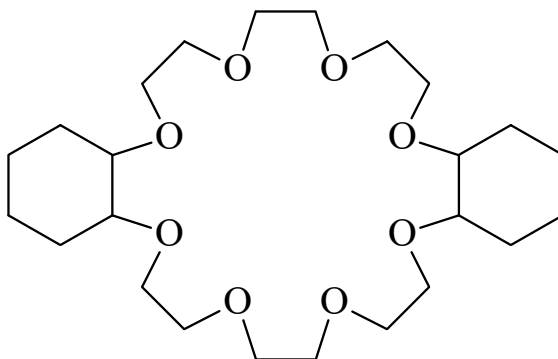




>>Entry Name: Dicyclohexyl-24-crown-8

Synonym(s): Tetracosahydrodibenz[*b,n*][1,4,7,10,13,16,19,22]octaoxacyclotetracosin, 9Cl. 2,5,8,11,18,21,24,27-Octatricyclo[26.4.0.0^{12,17}]dotriacontane



CAS Registry Number: 17455-23-1

Related CAS Registry Numbers(s): 125356-35-6 125356-36-7 125356-37-8

Molecular Formula: C₂₄H₄₄O₈

Molecular Weight: 460.607

Accurate Mass: 460.30362

Percentage Composition: C 62.58%; H 9.63%; O 27.79%

Source/Synthesis: Synth. by hydrogenation of Dibenzo-24-crown-8 [KFZ55-B](#). The major isomer obtained has the *cis-syn-cis* configuration

Use/Importance: Used as a complexing agent for alkali metal ions

Physical Description: Pale yellow viscous liq.

Melting Point: Mp 20°

Solubility: Sol. EtOH, CHCl₃; sl. sol. H₂O

Density: d₂₀⁴ 1.105

Aldrich: 22623-8

Fluka: 36668

References:

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Cheng, R.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982, (*rev*)

Buchanan, G.W. *et al.*, *Can. J. Chem.*, 1992, **70**, 1688, (*synth, config*)

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