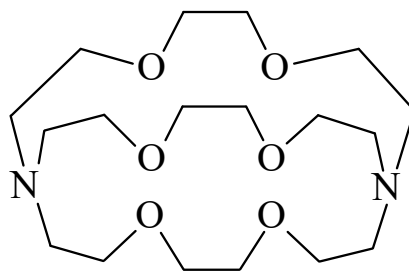




>>Entry Name: 4,7,13,16,21,24-Hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane, 9CI

Synonym(s): Cryptand 2.2.2. Kryptofix 222. Cryptate 2.2.2. [2.2.2]Crypt



CAS Registry Number: 23978-09-8

Molecular Formula: $C_{18}H_{36}N_2O_6$

Molecular Weight: 376.492

Accurate Mass: 376.257338

Percentage Composition: C 57.42%; H 9.64%; N 7.44%; O 25.50%

Use/Importance: Complexing agent for alkaline earth metals and Pb; used for photometric detn. of Ca, Mg, Sr

Physical Description: Cryst. (hexane)

Melting Point: Mp 68-69°

Solubility: Sol. H_2O , Me_2CO , dioxan, C_6H_6 , $CHCl_3$; insol. Et_2O

Hazard & Toxicity: LD₅₀ (rat, ipr) 110 mg/kg

Aldrich: 29111-0

Fluka: 52910

Sigma: H5762

References:

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Kagenow, M. *et al.*, *Anal. Chim. Acta*, 1980, **114**, 227; 1983, **145**, 125, (detn, Ca, Mg, Sr)
Foerster, H.G. *et al.*, *J.A.C.S.*, 1980, **102**, 6984, (N-15 nmr)
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