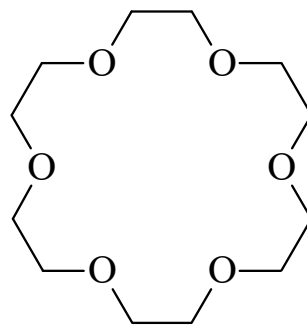




>>Entry Name: 18-Crown-6

Synonym(s): 1,4,7,10,13,16-Hexaoxacyclooctadecane, 9CI



CAS Registry Number: 17455-13-9

Molecular Formula: C₁₂H₂₄O₆

Molecular Weight: 264.318

Accurate Mass: 264.15729

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Use/Importance: Forms extractable complexes with alkali metal ions. Used for extraction-photometric detn. of Pb (as ion-pair with acid dye)

Physical Description: Cryst.

Melting Point: Mp 38-39.5°

Boiling Point: Bp_{0.2} 116°

Solubility: Sol. H₂O

Hazard & Toxicity: Eye and skin irritant. LD₅₀ (rat, orl) 525 mg/kg. Has exploded during purifn.

Aldrich: 18665-1

Fluka: 28125

Sigma: C5515

Supelco: R40-4150

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