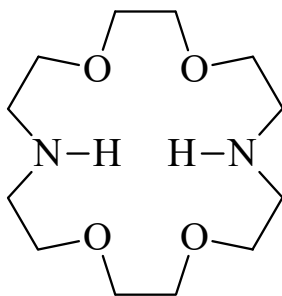




>>Entry Name: 1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane

Synonym(s): 4,13-Diaza-18-crown-6. 1,7,10,16-Tetraoxa-4,13-diazacyclooctadecane. Cryptand 22. Kryptofix 22



CAS Registry Number: 23978-55-4

Molecular Formula: $C_{12}H_{26}N_2O_4$

Molecular Weight: 262.348

Accurate Mass: 262.189258

Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%

Use/Importance: Co-monomer for polymers, e.g. polyureas with complexing props.

Physical Description: Cryst. (hexane)

Melting Point: Mp 114-115°

Aldrich: 29580-9

Fluka: 87999

>>Derivative: *N,N'*-Bis(4-methylbenzenesulfonyl)

Melting Point: Mp 164-165°

>>Derivative: *N,N'*-Dibenzyl

CAS Registry Number: 69703-25-9

Molecular Formula: $C_{26}H_{38}N_2O_4$

Molecular Weight: 442.597

Accurate Mass: 442.283158

Percentage Composition: C 70.56%; H 8.65%; N 6.33%; O 14.46%

Physical Description: Cryst. (hexane)

Melting Point: Mp 80-81°

Aldrich: 29472-1

Fluka: 33835

>>Derivative: *N,N'*-Di-Ph

Molecular Formula: $C_{24}H_{34}N_2O_4$

Molecular Weight: 414.544

Accurate Mass: 414.251858

Percentage Composition: C 69.54%; H 8.27%; N 6.76%; O 15.44%

Physical Description: Solid (hexane/EtOH)

Melting Point: Mp 93-94°

>>Derivative: *N,N'*-Didecyl

CAS Registry Number: 79495-97-9

Molecular Formula: $C_{32}H_{66}N_2O_4$

Molecular Weight: 542.884

Accurate Mass: 542.502258

Percentage Composition: C 70.80%; H 12.25%; N 5.16%; O 11.79%

Physical Description: Cryst.

Melting Point: Mp 34.5-36.5°

Boiling Point: Bp_{0.07} 205-217°

References: