



>>Entry Name: **3,3'-Diaminodipropylamine, 8Cl**

Synonym(s): *N*-(3-Aminopropyl)-1,3-propanediamine, 9Cl. Bis(3-aminopropyl)amine. Dipropylenetriamine. 1,7-Diamino-4-azaheptane. Iminobispropylamine. 1,5,9-Triazanonane. Norspermidine. Caldine

CAS Registry Number: 56-18-8

Related CAS Registry Numbers(s): 27708-70-9 72864-15-4

$(\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}_2)_2\text{NH}$

Molecular Formula: $\text{C}_6\text{H}_{17}\text{N}_3$

Molecular Weight: 131.22

Accurate Mass: 131.142247

Percentage Composition: C 54.92%; H 13.06%; N 32.02%

Biological Source: Metab. of various bacteria and plant spp.

Use/Importance: Colorimetric reagent for nitro compds. Cross-linking agent for epoxy resins

Physical Description: Liq.

Melting Point: Mp -14°

Boiling Point: Bp 240° . Bp₂ 100°

Solubility: Sol. H_2O , polar org. solvs.

Density: d_{20}^{20} 0.931

Refractive Index: n_D^{20} 1.4810

Hazard & Toxicity: Skin and severe eye irritant. LD₅₀ (rat, orl) 810 mg/kg. LD₅₀ (skn, rbt) 110 mg/kg

Aldrich: I-100-6

Fluka: 14520

Sigma: I7006

>>Derivative: Hydrochloride (1:3)

Physical Description: Cryst. (MeOH aq. or EtOH/Et₂O)

Melting Point: Mp 270° (259°)

>>Derivative: Tripicrate

Physical Description: Cryst. (H_2O)

Melting Point: Mp $226-227^\circ$

>>Derivative: *N*³,*N*^{3'}-Bis(2,3-dihydroxybenzoyl)

CAS Registry Number: 88381-35-5

Molecular Formula: $\text{C}_{20}\text{H}_{25}\text{N}_3\text{O}_6$

Molecular Weight: 403.434

Accurate Mass: 403.174337

Percentage Composition: C 59.54%; H 6.25%; N 10.42%; O 23.79%

Biological Source: Isol. from *Vibrio fluvialis*

Use/Importance: Siderophore

UV: [neutral] λ_{max} 248 (E1%/1cm 12.8); 316 (E1%/1cm 8.1) (MeOH) (Berdy)

>>Derivative: *N*¹-Me

Synonym(s): *N*-(3-Aminopropyl)-*N*-methyl-1,3-propanediamine. 3,3'-Diamino-*N*-methylpropylamine. *N,N*-Bis(3-aminopropyl)methylamine

CAS Registry Number: 105-83-9

Molecular Formula: $\text{C}_7\text{H}_{19}\text{N}_3$

Molecular Weight: 145.247

Accurate Mass: 145.157897

Percentage Composition: C 57.89%; H 13.18%; N 28.93%

Use/Importance: Monomer for polyamides and polyureas

Physical Description: Liq.

Boiling Point: Bp₁₂ $112-114^\circ$

Hazard & Toxicity: Skin and severe eye irritant. LD₅₀ (rat, orl) 1540 mg/kg

Aldrich: 18844-1