



>>Entry Name: *N,N'*-Bis(3-aminopropyl)-1,2-ethanediamine

Synonym(s): *N,N'*-1,2-Ethanediyldis-1,3-propanediamine, 9Cl. 1,5,8,12-Tetraazadodecane

CAS Registry Number: 10563-26-5

$\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{CH}_2\text{NH}_2$

Molecular Formula: $\text{C}_8\text{H}_{22}\text{N}_4$

Molecular Weight: 174.289

Accurate Mass: 174.184446

Percentage Composition: C 55.13%; H 12.72%; N 32.15%

Biological Source: Alkaloid from *Nuphar japonicum*

Boiling Point: Bp₅ 150-160°

Refractive Index: n_D²⁰ 1.4910

Aldrich: 23939-9

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 267D

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **3**, 398C

Barefield, E.K. *et al.*, *Inorg. Synth.*, 1975, **16**, 220, (*synth*)

Hamana, K. *et al.*, *Can. J. Bot.*, 1998, **76**, 130-133, (*isol*)