



>>Entry Name: [3-(2-Aminoethylamino)propyl]trimethoxysilane

Synonym(s): *N*-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine, 9Cl. 3-(2-Aminoethylamino)propyltrimethylsiloxane

CAS Registry Number: 1760-24-3

$\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}(\text{CH}_2)_3\text{Si}(\text{OMe})_3$

Molecular Formula: $\text{C}_8\text{H}_{22}\text{N}_2\text{O}_3\text{Si}$

Molecular Weight: 222.359

Accurate Mass: 222.13997

Percentage Composition: C 43.21%; H 9.97%; N 12.60%; O 21.59%; Si 12.63%

Source/Synthesis: Synth. from $(\text{MeO})_3\text{Si}(\text{CH}_2)_3\text{Cl}$ + en

Use/Importance: Adhesion improver for glass fibre epoxy resin composites. Coupling and curing agent

Physical Description: Light straw-coloured liq.

Boiling Point: Bp_{15} 146°. Bp_{15} 140.5°

Density: d_4^{25} 1.015

Refractive Index: n_D^{25} 1.4418

Aldrich: 23577-6

Fluka: 6668

Rare Chemicals Library: S41130-2

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 680C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1110A, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1655C, (*ir*)

U.S. Pat., 1961, 2 971 864; *CA*, **55**, 14310d, (*synth, use*)

Speier, J.L. *et al.*, *J.O.C.*, 1971, **36**, 3120, (*synth*)

Shih, P.T.K. *et al.*, *Mater. Sci. Eng.*, 1975, **20**, 145, (*Raman*)

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