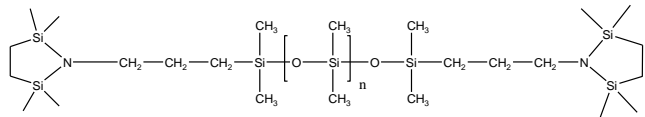
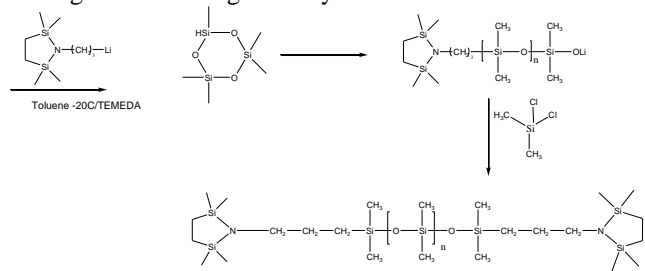


Sample Name: **α,ω Diamino Protected Polydimethylsiloxane****Sample #: P9982A-DMS2NH2****Structure:****Composition:**

Mn x 10 ³	PDI
8.5	1.15
NH2 end functionality:	> 87%

Synthesis Procedure:

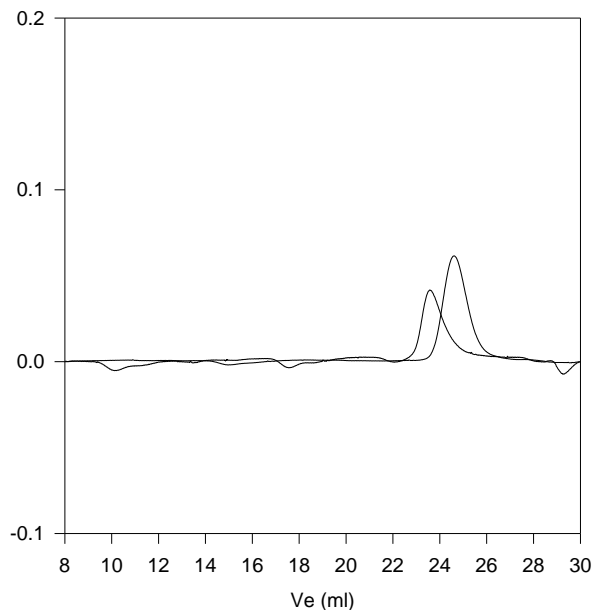
α,ω diamino Terminated Polydimethylsiloxane was prepared by anionic living polymerization of hexamethyl cyclotrisiloxane, using NH2 protected initiator followed by linking reaction using dimethyl dichlorosilane.

**Characterization:**

The molecular weight and polydispersity index of this polymer were by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. The functionality was determined by titration of HClO₄ in chloroform.

Solubility:

Polymer is soluble in hexane, toluene, benzene and CHCl₃, THF. It precipitated out from cold ethanol, methanol.

SEC of Sample:**P9982-DMS2NH2**

Size Exclusion Chromatography of diamino terminated Poly(dimethyl siloxane)

M_n=4200, M_w=4600, PI=1.15

After Linking reaction Mn 8500 Mw/Mn 1.15