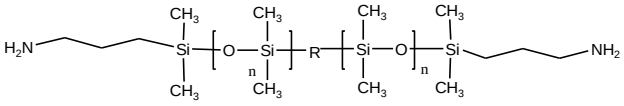
Sample Name:

α,ω Amino Terminated Polydimethylsiloxane

Sample #: **P9982-DMS2NH2**

Structure:

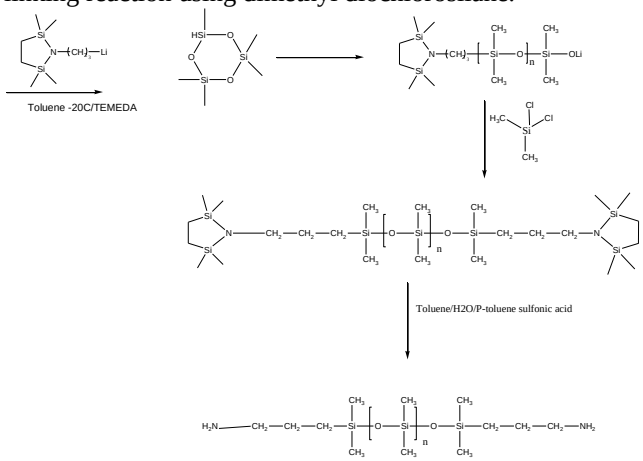


Composition:

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 diochlorosilane.



Characterization:

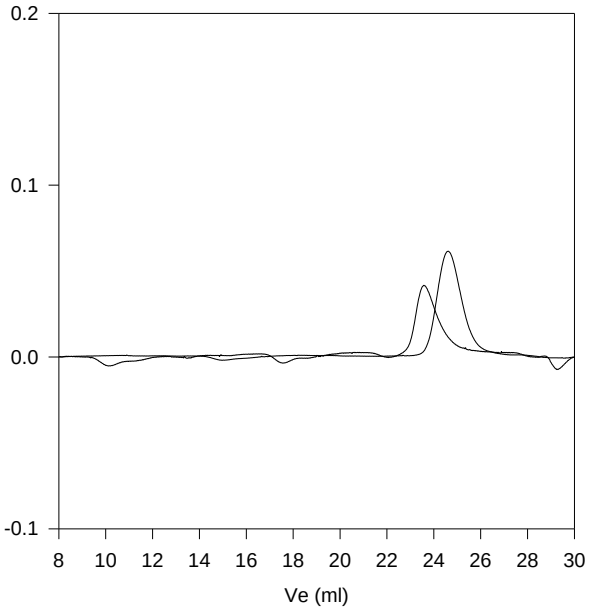
The molecular weight and polydispersity index of this polymer were by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. The functionality was determined by titration of HClO4 in chloroform.

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