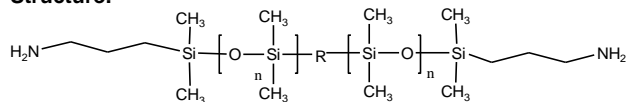
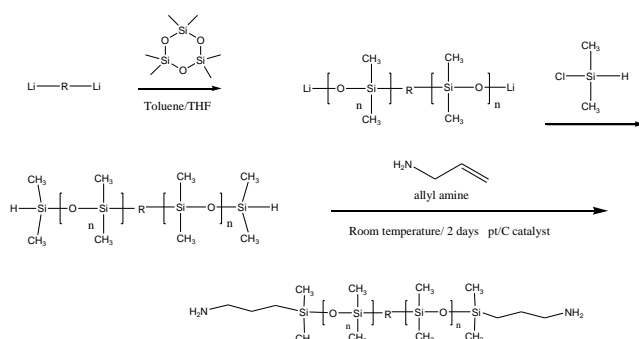


Sample Name: **α,ω Amino Terminated Polydimethylsiloxane****Sample #: P6497-DMS2NH2****Structure:****Composition:**

$M_n \times 10^3$	PDI
6.0	1.2
NH2 end functionality:	> 87%

Synthesis Procedure:

α,ω diamino Terminated Polydimethylsiloxane was prepared by anionic living polymerization of hexamethyl cyclotrisiloxane, followed by a hydrosilation with allylamine. The scheme of the reaction is illustrated below:

**Characterization:**

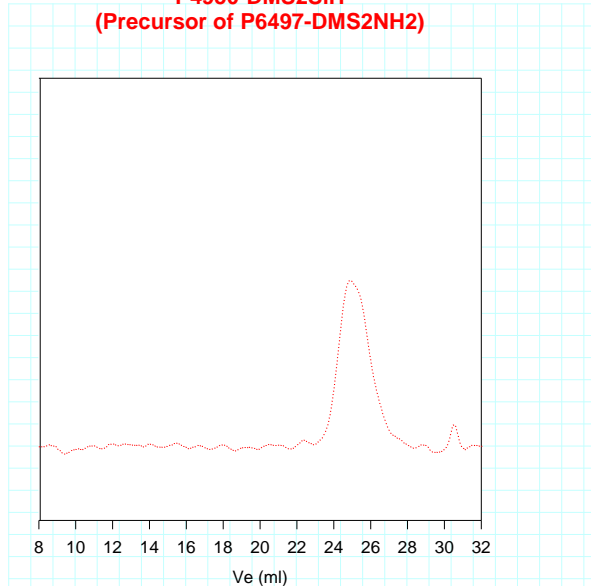
The molecular weight and polydispersity index of this polymer were by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. The functionality was determined by titration of HClO₄ in chloroform.

Solubility:

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

SEC of Sample:

P4950-DMS2SiH
(Precursor of P6497-DMS2NH2)



Size exclusion chromatography of α,ω -disilane terminated polydimethylsiloxane

..... Polydimethylsiloxane $M_n=6000$, $M_w=7500$, $PI=1.2$