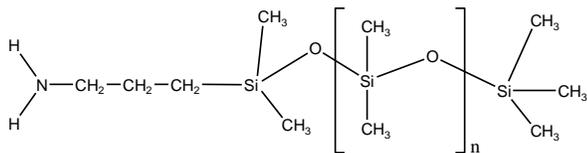


Sample Name: Amino Terminated

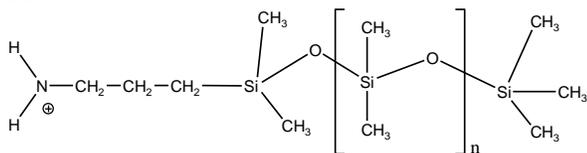
Polydimethylsiloxane

Sample #: P19117-DMSNH2

Structure:



And

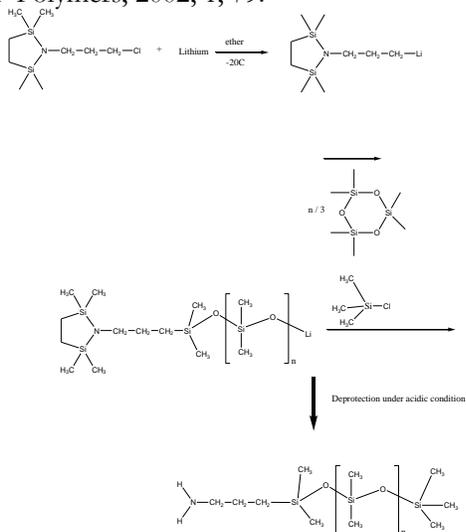


Composition:

| | |
|----------------------|-------|
| Mn x 10 ³ | PDI |
| 3.5 | 1.2 |
| NH2 by titration | > 90% |

Synthesis Procedure:

Amino terminated polydimethylsiloxane was prepared by anionic living polymerization of hexamethyl cyclotrisiloxane .Ref: J.X. Zhang, S.K. Varshney, "Simple Approach for the Scale-up Production of Block Copolymer of Polydimethylsiloxane with (Meth)acrylic Ester Monomers" Designed Monomers and Polymers, 2002, 1, 79.



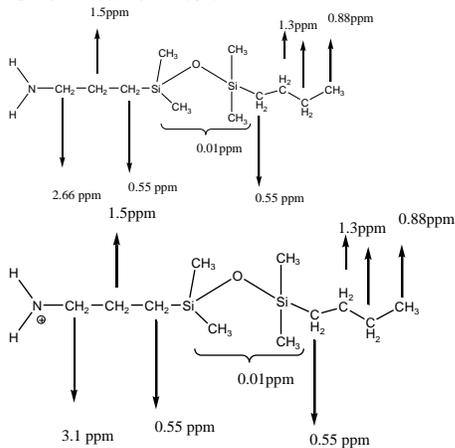
Characterization:

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

Solubility:

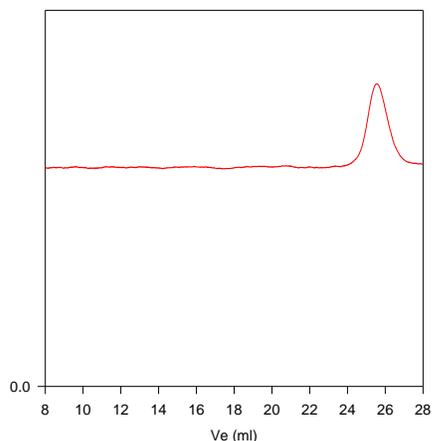
The polymer is soluble in Hexane, Toluene CHCl₃ and THF.

Chemical Shifts :



SEC of Sample:

P19117-DMSNH2



Size Exclusion Chromatography of diamino terminated Poly(dimethyl siloxane)
M_n=3500, M_w=4,200, PI=1.2

1H NMR:

