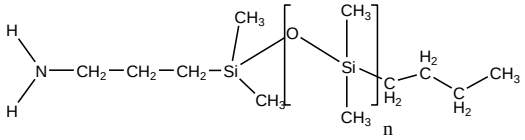
Sample Name:
Amino Terminated Polydimethylsiloxane

Sample #: **P18468-DMSNH2**

Structure:



Composition:

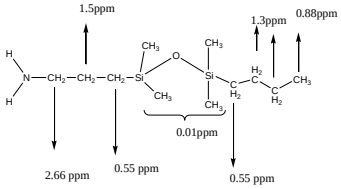
Mn x 10^3	PDI
2.0	1.15

Synthesis Procedure:
Amino terminated polydimethylsiloxane was prepared by anionic living polymerization of hexamethyl cyclotrisiloxane.

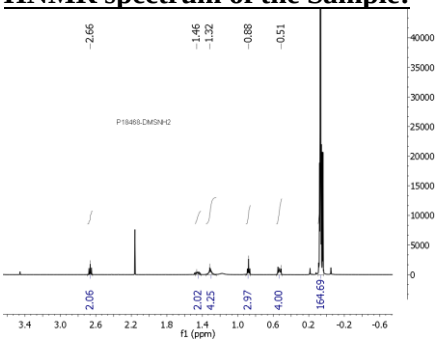
Characterization:
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by titration with $HClO_4$ using crystal violet as the indicator.
Hydrosilation reaction was monitored by FTIR by the disappearance of SiH (2126cm-1) to allyl amine.

Solubility:
The polymer is soluble in Hexane, Toluene $CHCl_3$ and THF.

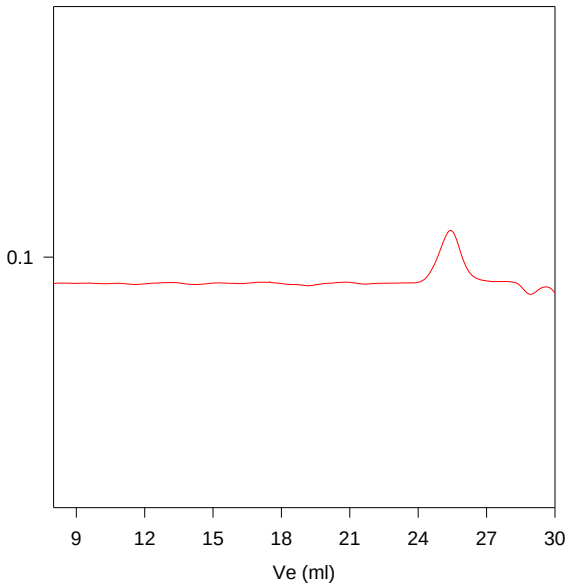
Chemical Shifts :



HNMR spectrum of the Sample:



SEC profile of the Sample:



M_n=2,000, M_w=2,400 M_w/M_n=1.15, functionality>99%

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.