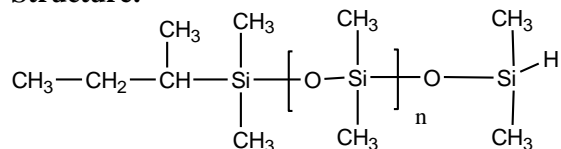


Sample Name:

**$\omega$ - Silane end Terminated Polydimethylsiloxane**

Sample #: **P41002-DMSSiH**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
4.0	1.1
SiH functionality	>95%

**Synthesis Procedure:**

The polymer is prepared by anionic polymerization process.

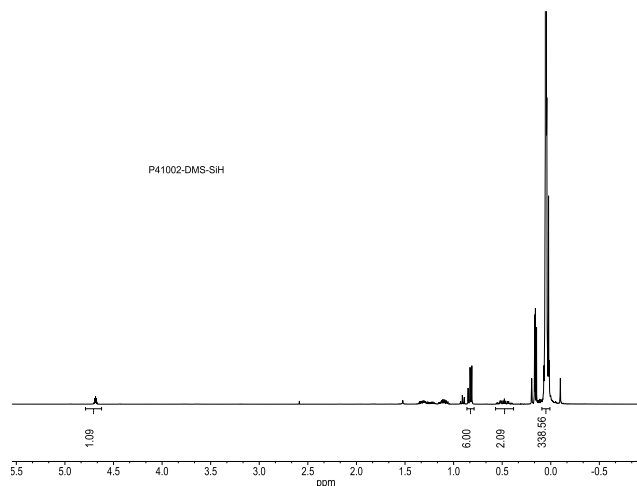
**Characterization:**

The molecular weight was calculated from NMR by comparing the sec-BuLi methyl group protons at 0.95ppm and the dimethylsiloxane methyl group at 0.08ppm, the polydispersity index of this polymer was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:**

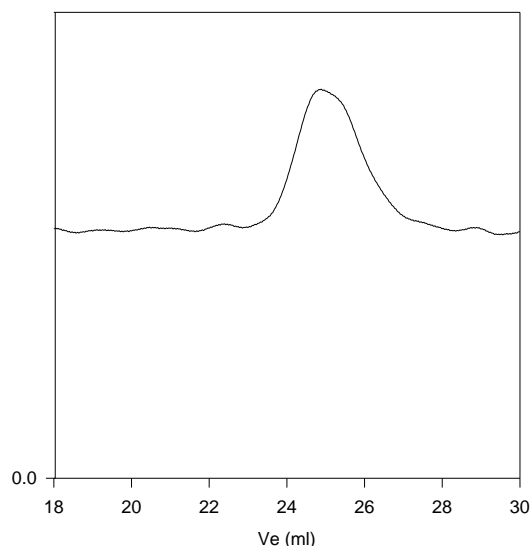
The polymer is soluble in hexane, toluene, cyclohexane, THF and chloroform and it precipitates from methanol and ethanol.

**H NMR spectrum of the product:**



**SEC profile of the Sample:**

**P41002-DMSSiH**



Size exclusion chromatography of  $\omega$ - silane terminated polydimethylsiloxane  
—— Polydimethylsiloxane  $M_n=4,000$ ,  $M_w=4,500$ ,  $PI=1.13$  (from HNMR analysis)