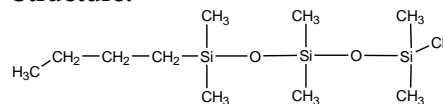


Sample Name:

**Chlorosilane Silane Terminated
Polydimethylsiloxane**

Sample #: **P1889-DMSSiCl**

Structure:



Composition:

Mn x 10 ³	PDI
7.9	1.19
SiCl functionality	>95%

Synthesis Procedure:

By anionic polymerization process. Reaction was terminated with large excess of dimethyl dichlorosilane.

Characterization:

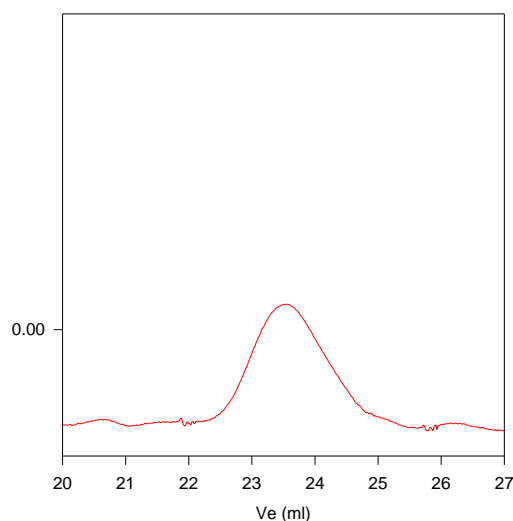
The molecular weight was calculated from NMR by comparing the sec-BuLi methyl group protons at 0.95ppm and the dimethylsiloxane methyl group at 0.08ppm, the polydispersity index of this polymer was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV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

Solubility:

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

SEC of Sample:

P1889-PDMS-SiCl



Size exclusion chromatography of Chlorosilane terminated poly(dimethyl siloxane):

$M_n=7900$, $M_w=9300$, $M_w/M_n=1.19$, functionality>0.95%.