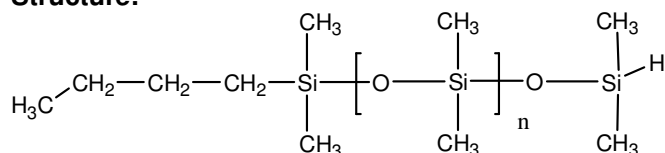


Sample Name:

## Silane Terminated Polydimethylsiloxane

Sample #: **P14712-DMSSiH**

**Structure:**



**Composition:**

$M_n \times 10^3$ (g/mol)	PDI
1.2	1.2

**Synthesis:** by anionic polymerization process.

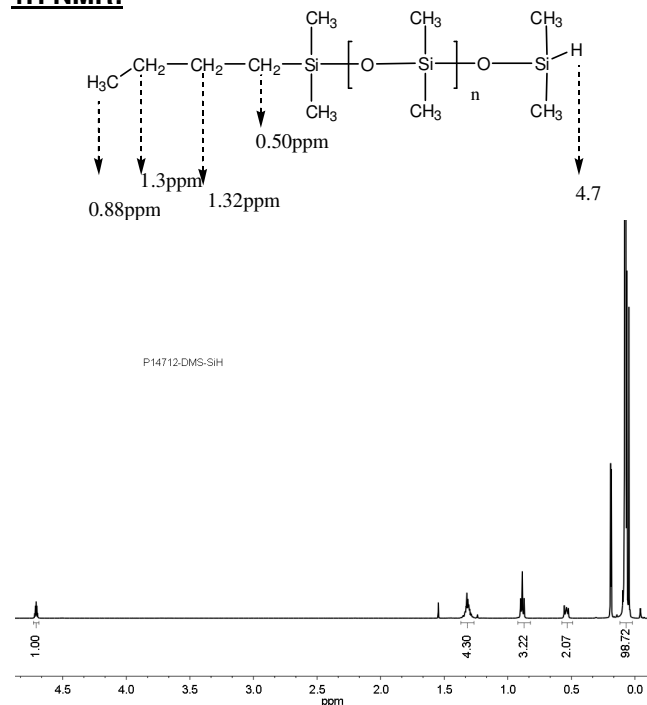
**Characterization:**

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:**

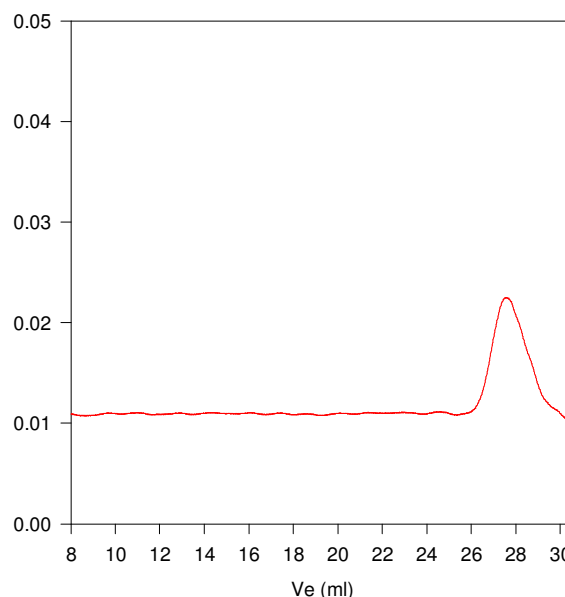
The polymer is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol

**1H NMR:**



**SEC:**

**P14712-DMSSiH**



Size Exclusion Chromatography of monosilan terminated PDMS

$M_n = 1,200$ ,  $M_w = 1,400$ ,  $PI = 1.2$