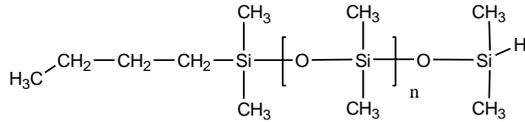


Sample Name:
Silane Terminated Polydimethylsiloxane

Sample #: P14713-DMSSiH

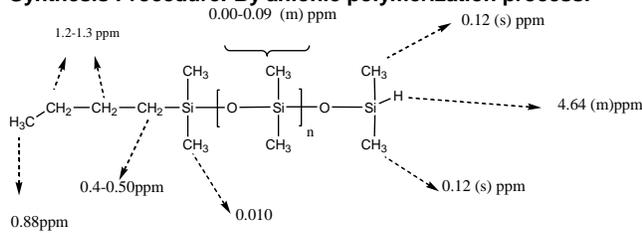
Structure:



Composition:

Mn x 10 ³	PDI
6.5	1.2
SiH functionality	>95%

Synthesis Procedure: By anionic polymerization process:



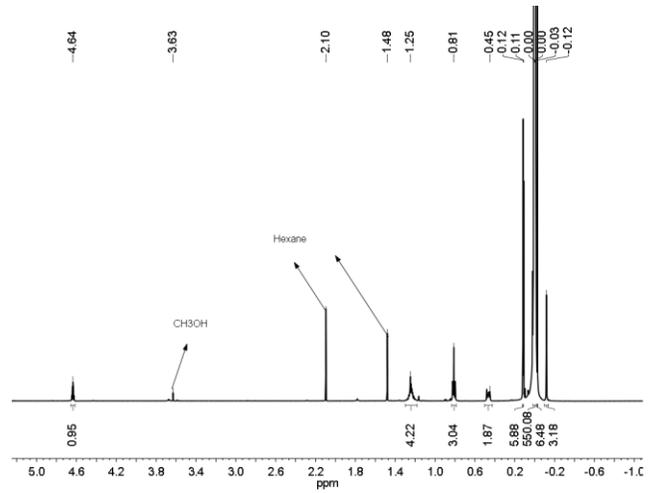
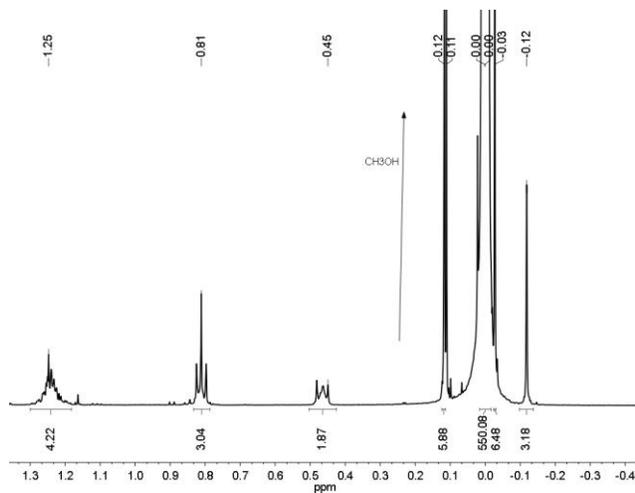
Characterization:

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:

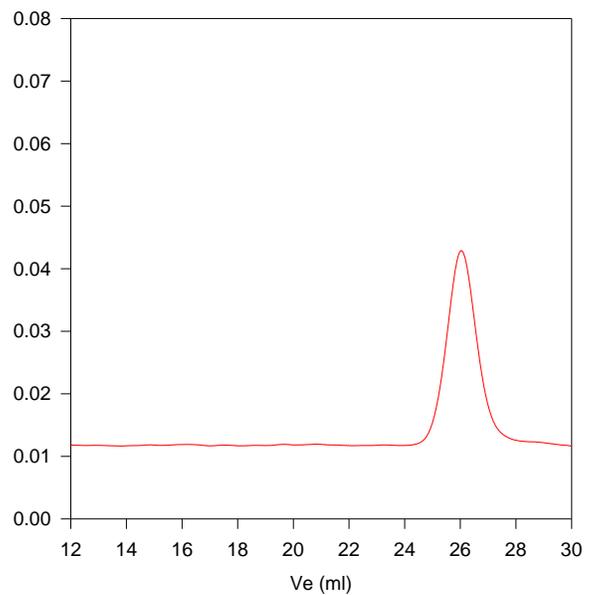
The polymer is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

H NMR:



SEC Sample:

P14713-DMSSiH



Size Exclusion Chromatography of monosilan terminated PDMS

M_n = 6,500, M_w = 7,800, PI = 1.2