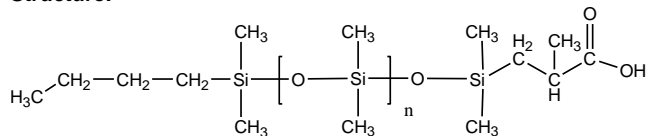


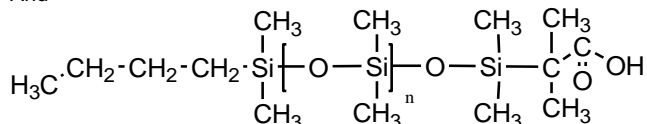
**Sample Name:**  
**Mono COOH Terminated Polydimethylsiloxane**

**Sample #:** P14713A-DMS-CH<sub>2</sub>CH(CH<sub>3</sub>)COOH

**Structure:**



And



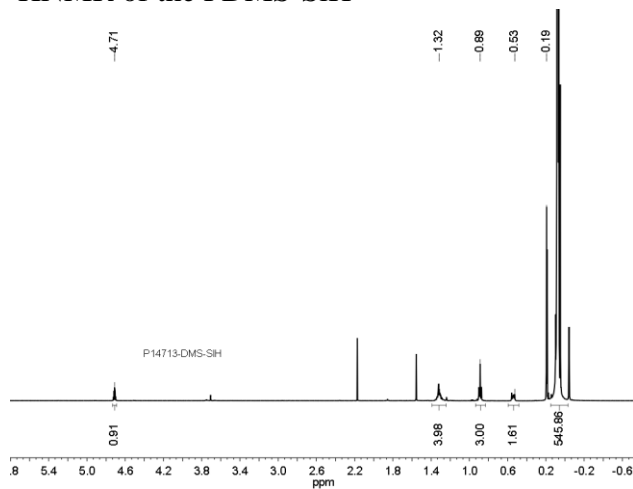
**Composition:**

Mn x 10 <sup>3</sup>	PDI
6.5	1.2

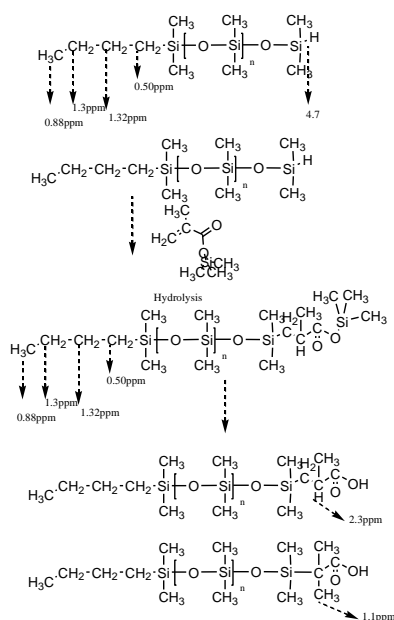
**Synthesis Procedure:**

Silane terminated poly(dimethyl siloxane) was prepared by living anionic polymerization process.

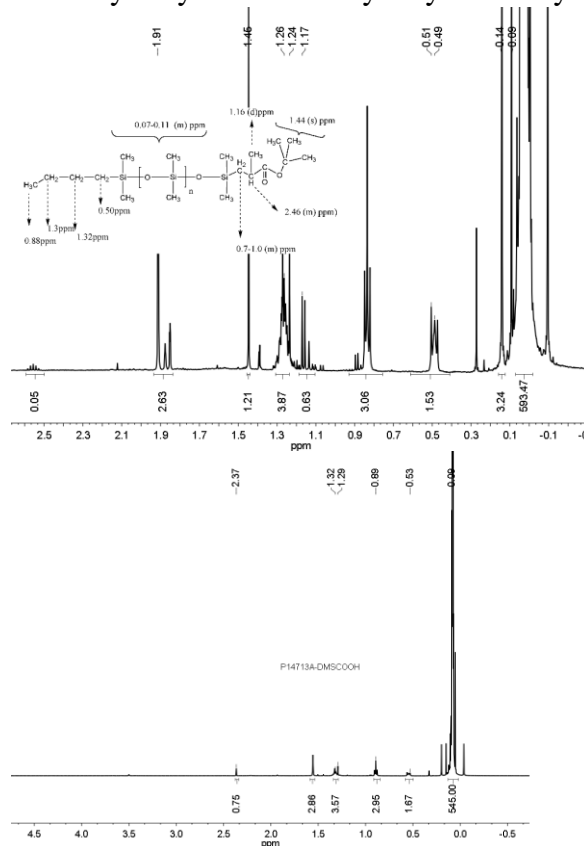
**HNMR of the PDMS-SiH**



**HNMR of the PDMS-SiH after Hydrosilation with trimethyl silylmethacrylate showing absence of SiH at 4.7 ppm :**



**After Hydrolysis of trimethyl silylmethacrylate:**



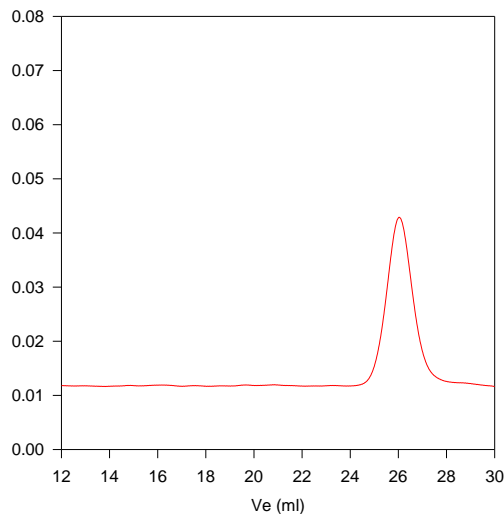
**Characterization:**

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:**

**P14713-DMSSiH**



Size Exclusion Chromatography of monosilan terminated PDMS

M<sub>n</sub> = 6,500, M<sub>w</sub> = 7,800, PI = 1.2