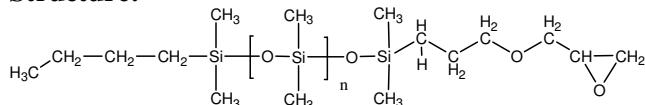


Sample Name:

**Glycidyl Terminated Polydimethylsiloxane  
Or Mono Epoxy terminated Polydimethylsiloxane**

Sample #: P19717-DMS-Epoxy

**Structure:**

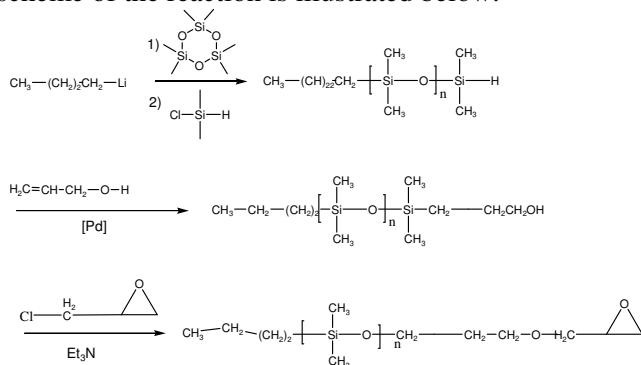


**Composition:**

Mn x 10 <sup>3</sup>	PDI
7.0	1.15

**Synthesis Procedure:**

Glycidyl terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethylcyclotrisiloxane(D3) followed by hydrosilation with allyl alcohol and than reacting with epichlorohydrine in THF in the presence of (Et)<sub>3</sub>N. The scheme of the reaction is illustrated below:

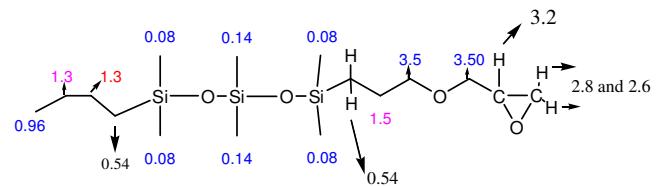


**Characterization:**

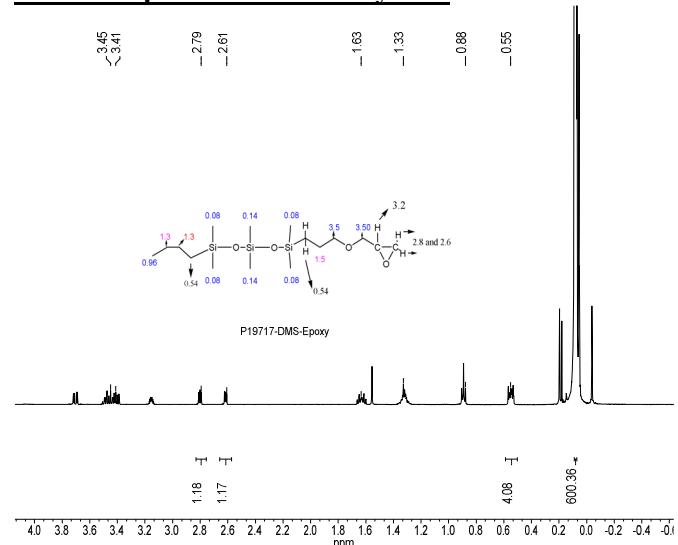
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:**

The polymer is soluble in CHCl<sub>3</sub>, Toluene, Hexane.

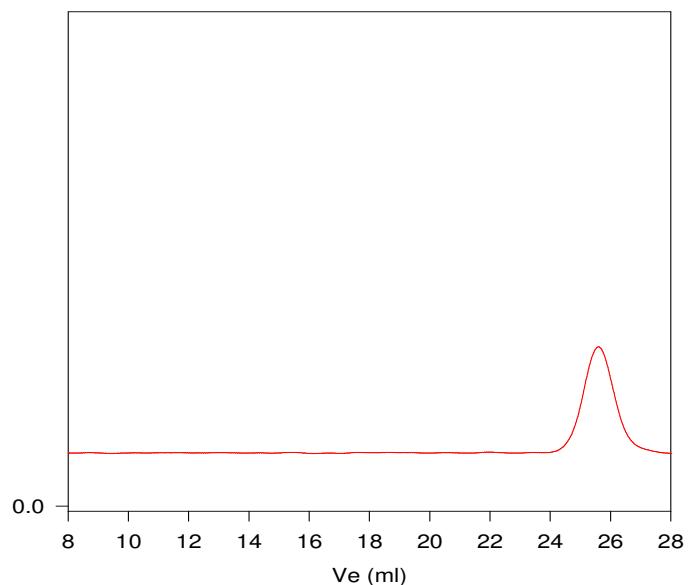


**<sup>1</sup>H NMR spectrum of the Polymer:**



**SEC elugram of the Polymer:**

**P19717-DMSEpoxy**



Size Exclusion Chromatography in THF at 35 °C w.r.t PDMS standards.

M<sub>n</sub> = 7,000, M<sub>w</sub> = 8,000, PI = 1.15