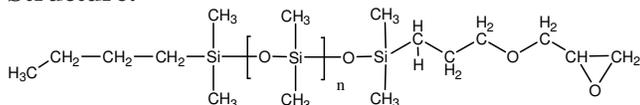


Sample Name:

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

Sample #: P19719-DMS-Epoxy

Structure:

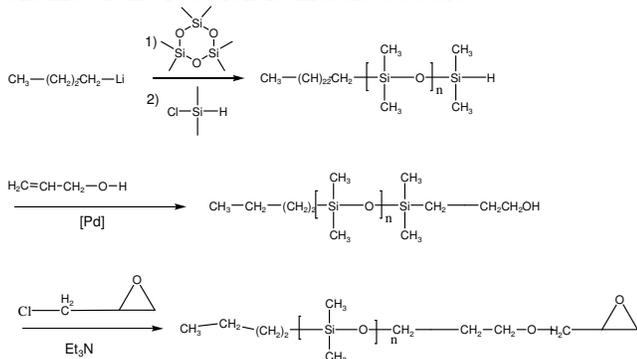


Composition:

| Mn x 10 ³ | PDI |
|----------------------|-----|
| 1.2 | 1.2 |

Synthesis Procedure:

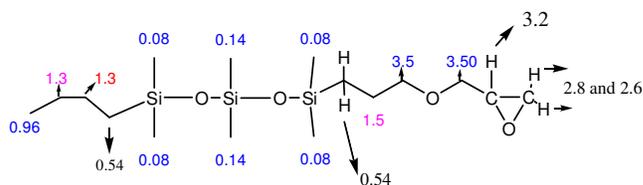
Glycidyl terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethylcyclotrisiloxane(D3) followed by hydrosilation with allyl alcohol and than reacting with epichlorohydrine in THF in the presence of (Et)₃N. The scheme of the reaction is illustrated below:



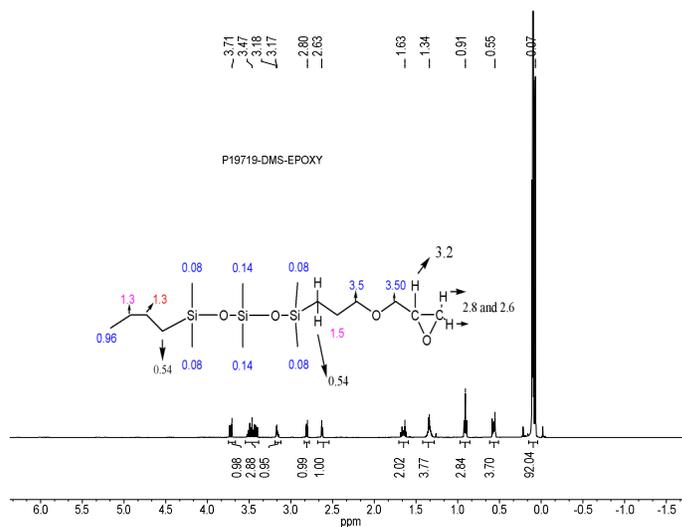
Characterization:

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: polymer is soluble in CHCl₃, Toluene, Hexane.

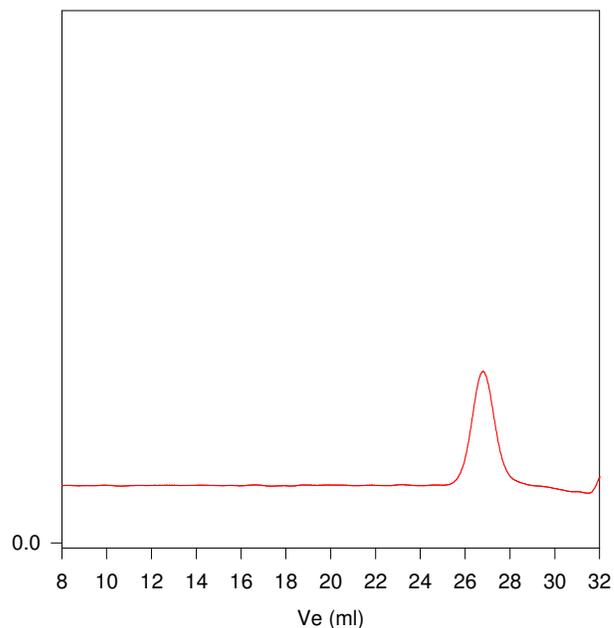


1H NMR spectrum of the Polymer:



SEC elugram of the Polymer:

P19719-DMS-Epoxy



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

M_n = 1,200, M_w = 1,500, PI = 1.2