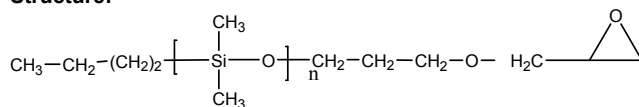


Sample Name:
Glycidyl Terminated Polydimethylsiloxane

Sample #: P8174-DMSGGE

Structure:

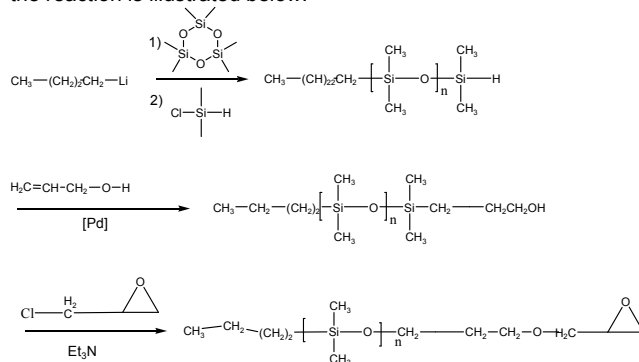


Composition:

Mn x 10 ³	PDI
5.2	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)₃N. The scheme of the reaction is illustrated below:



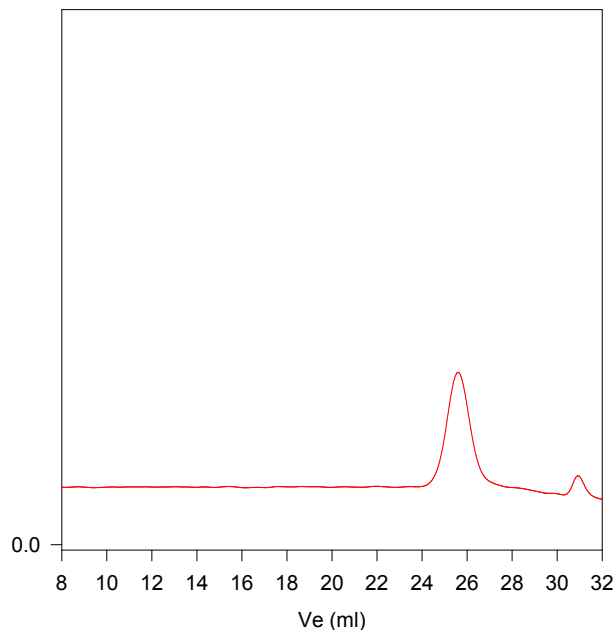
Characterization:

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.

SEC of Sample:

P8174-DMSGGE



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

M_n=5200, M_w=6000, PI=1.15

¹H NMR of the Polymer:

