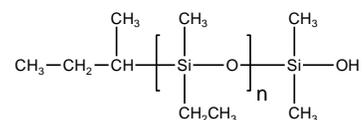
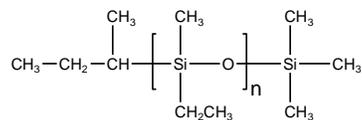


**Sample Name:** Poly (ethyl methyl siloxane)

## H NMR of the monomer

**Sample #:** P40743-EtMS

### Structure:



### Composition:

Mn x 10 <sup>3</sup>	Mw/Mn
6.0	1.4

### Synthesis Procedure:

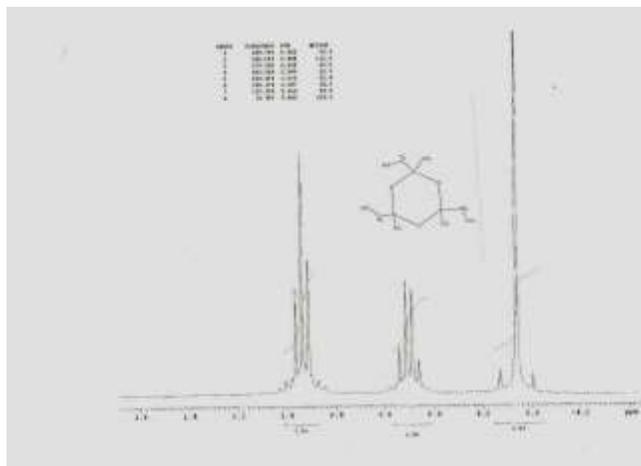
The polymer was prepared by Cationic polymerization process using CF<sub>3</sub>SO<sub>3</sub>H catalyst.

### Characterization:

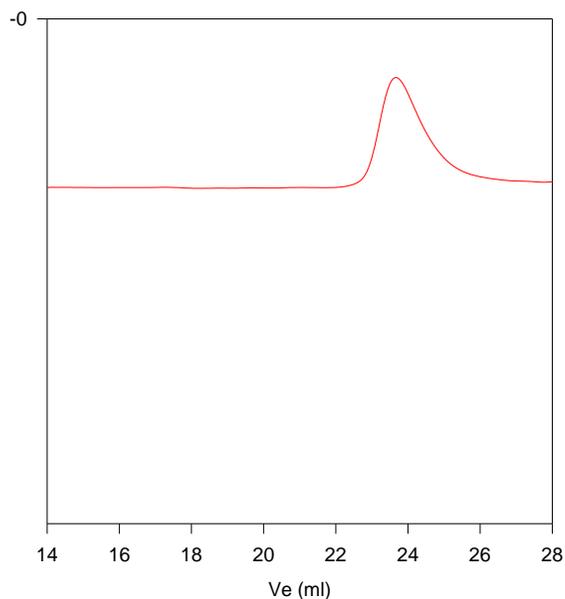
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co. SEC instrument was calibrated with monodispersed poly dimethylsiloxane polymers.

### Solubility:

The Polymer is soluble in Hexane, toluene, benzene, THF, and CHCl<sub>3</sub>.



### SEC elugram of Homopolymer: P40743-EtMS



Size Exclusion Chromatography of Poly(ethylmethyl siloxane)  
M<sub>n</sub>=6,000, M<sub>w</sub>=8,300, PI=1.4