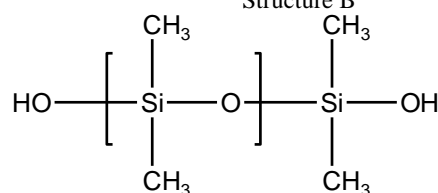
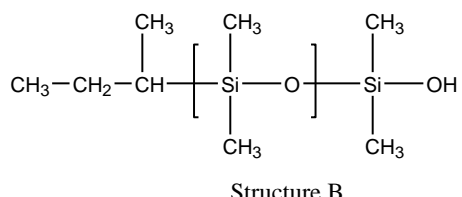
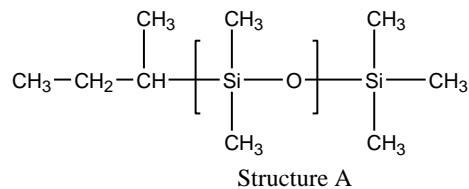


Sample Name: Polydimethylsiloxane Disilanol terminal group

Sample #: P5409-DMS (structure C)

Structure:



Structure C

Composition:

Mn x 10 ³	PDI
4.0	1.45

Synthesis Procedure:

The polymerization of the cyclic trimer (hexamethyl cyclotrisiloxane-D3) was initiated with a dunctional lithium based initiator in a polar / non-polar solvent mixture.

Characterization:

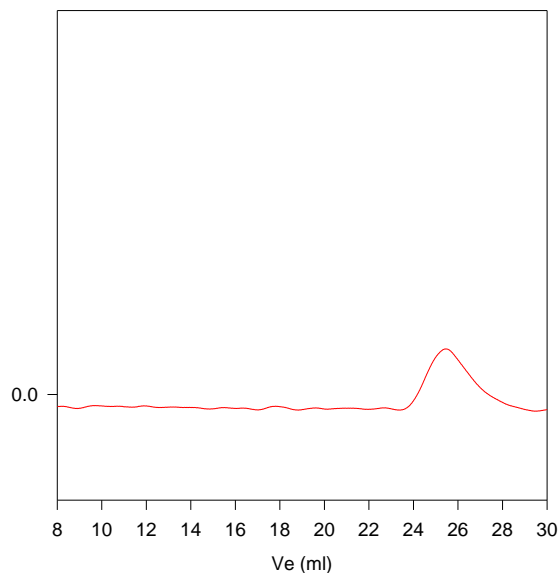
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polydimethylsiloxane is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

SEC of Homopolymer:

P5409-DMS



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

M_n=4000, M_w=5800, PI=1.45