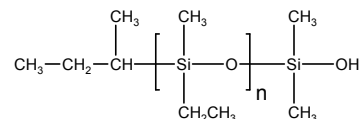
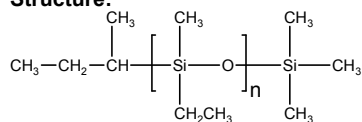


Sample Name: Poly(ethyl methyl siloxane)

Sample #: P10097-EtMS

Structure:

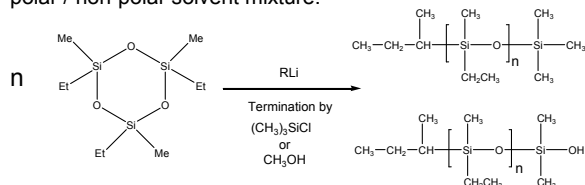


Composition:

Mn x 10 ³	Mw/Mn
16.0	1.16

Synthesis Procedure:

The polymerization of the cyclic trimer (1,3,5 trimethyl-1,3,5 triethyl cyclotrisiloxane-D3) (monomer synthesized) was initiated with a monofunctional lithium based initiator in a polar / non-polar solvent mixture.



Characterization:

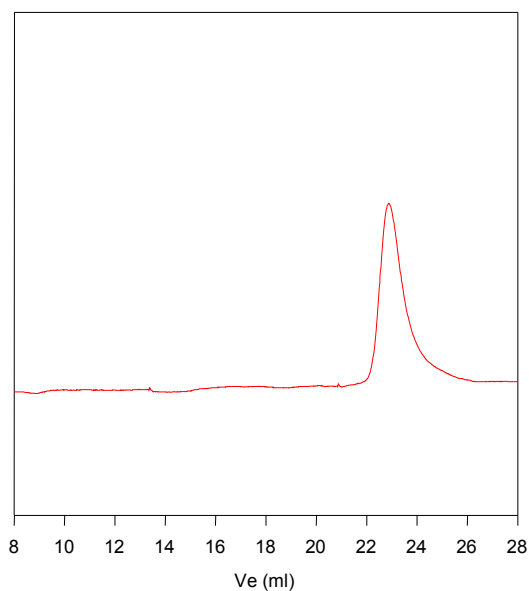
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Soluble in Hexane, toluene, benzene, THF, CHCl₃.

SEC of Homopolymer:

P10097-EtMS



Size Exclusion Chromatography of Poly(ethylmethyl siloxane)

M_n=16,000, M_w=18500, PI=1.16

H NMR of the monomer

