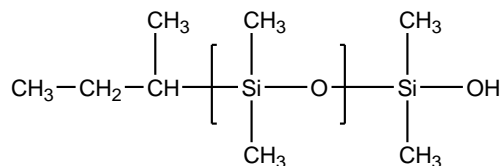


Sample Name: Sample Name:

**Poly(dimethyl siloxane), ( $\alpha$ -sec-butyl,  $\omega$ -silanol)-terminated**

Sample #: **P44384-DMS-Silanol**

**Structure:**

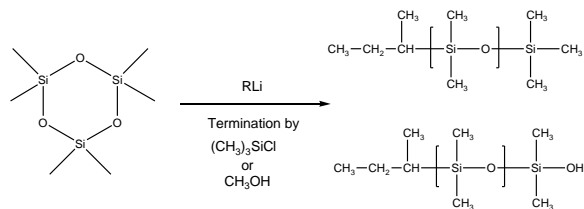


**Composition:**

Mn x 10 <sup>3</sup>	PDI
21.0	1.4

**Synthesis Procedure:**

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



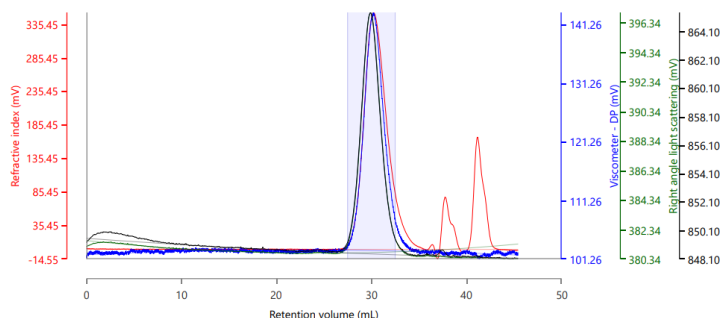
**Characterization:**

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.

**Solubility:**

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

**SEC elugram of Homopolymer:**



Results (Columns)

	p44384
	Injection 1
	Peak 1
Mn (g/mol)	21,035
Mw (g/mol)	29,683
Mw/Mn	1.411
Mp (g/mol)	26,974