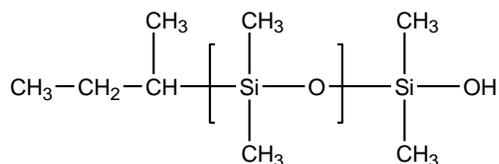


**Sample Name:** Poly(dimethyl siloxane),  
( $\alpha$ -sec-butyl,  $\omega$ -silanol)-terminated

**Sample #:** P44346C-DMS-Silanol

**Structure:**



**Composition:**

$\text{Mn} \times 10^3$	PDI
2.5	1.4

**Synthesis Procedure:**

The polymerization of the cyclic trimer (hexamethyl cyclotrisiloxane-D3) was initiated with *Sec*. Butyllithium initiator in a polar / non-polar solvents mixture. Termination of the reaction with methanol

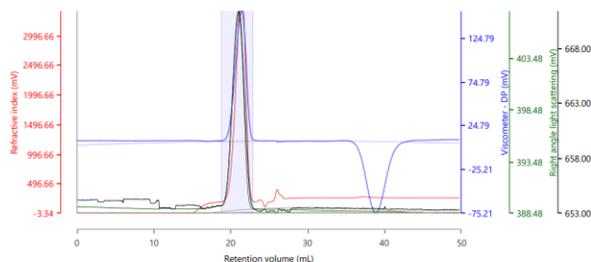
**Characterization:**

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 profile of Homopolymer:**



Results (Columns)	
P44346C Injection 1 Peak 1	
Mn (g/mol)	2,481
Mw (g/mol)	3,623
Mw/Mn	1.46
Mp (g/mol)	2,395