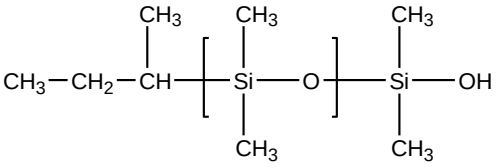
Sample Name: **Poly(dimethyl siloxane), (α-sec-butyl, ω-silanol)-terminated**

Sample #: **P44342K-DMS-Silanol**

Structure:



Composition:

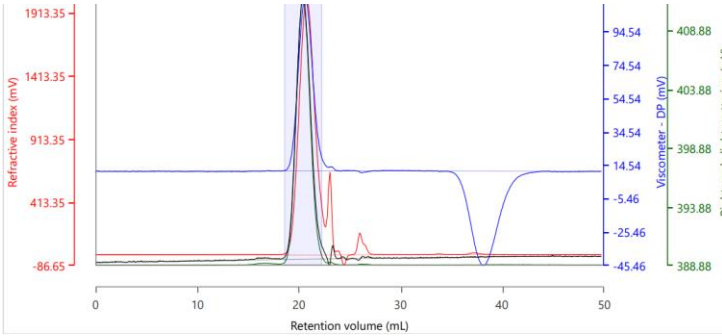
Mn x 10^3	PDI
4.5	1.5

Synthesis Procedure:
The polymerization of the cyclic trimer (hexamethyl cyclotrisiloxane-D3) was initiated with Sce. Butylitium 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, cylcohexane, THF and chloroform but precipitates from methanol and ethanol.

SEC profile of Homopolymer:



Results (Columns)

	P44342K Injection 1 Peak 1
Mn (g/mol)	4,301
Mw (g/mol)	6,725
Mw/Mn	1.564
Mp (g/mol)	5,800