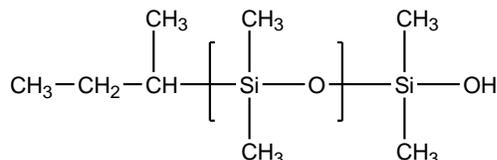


Sample Name: Poly(dimethyl siloxane), (α -sec-butyl, ω -silanol)-terminated

Sample #: P44382-DMS-Silanol

Structure:



Composition:

Mn x 10 ³	PDI
60.0	1.35

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

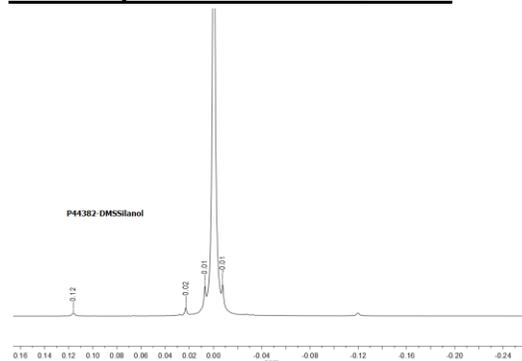
Characterization:

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.

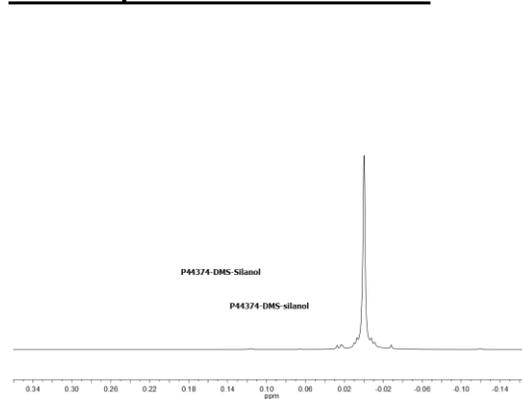
Solubility:

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

HNMR spectrum of PDMS-Silanol:



HNMR spectrum of PDMS-TMS:



SEC profile of Homopolymer:

