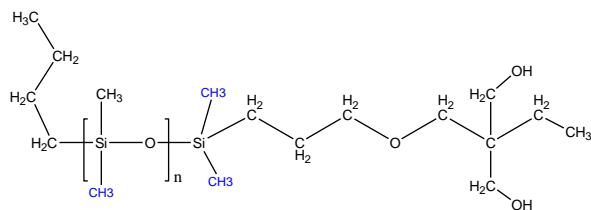


Sample Name: Mono dicarbinol Terminated
Polydimethylsiloxane-Monofunctional
Sample #: P19171-DMS2OH

Structure:



Composition:

Mn x 10 ³	PDI
5.0	1.07
OH functionality	> 99%

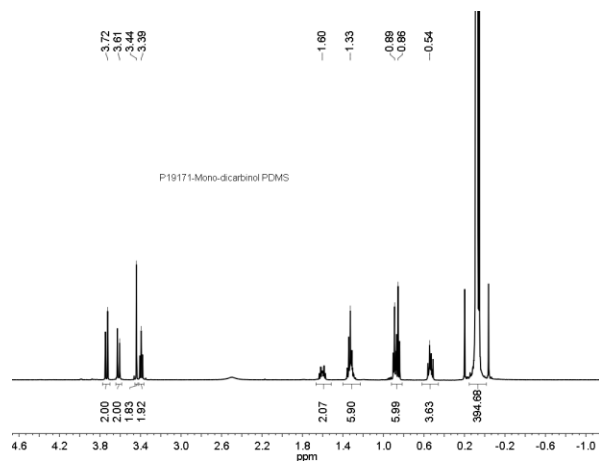
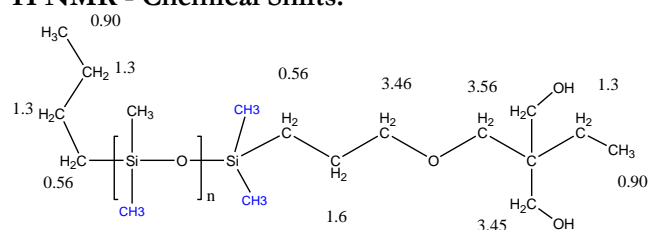
Synthesis Procedure:

Mono dicarbinol (monochelic) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane.

Characterization:

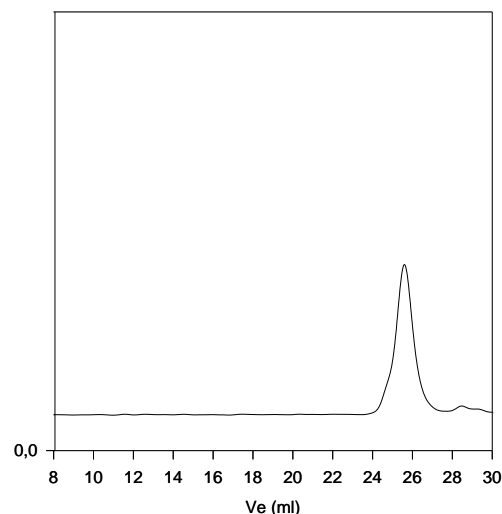
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

H NMR - Chemical Shifts:



SEC of Sample:

P19171-DMS mono 2OH (carbinol)



Size exclusion chromatography of mono dicarbinol terminated polydimethylsiloxane
Polydimethylsiloxane $M_n=5000$, $M_w=5300$, $PI=1.07$

Reference:

J.X. Zhang, S.K. Varshney, "Simple Approach for the Scale-up Production of Block Copolymer of Polydimethylsiloxane with (Meth)acrylic Ester Monomers" *Designed Monomers and Polymers*, 2002, 1, 79.