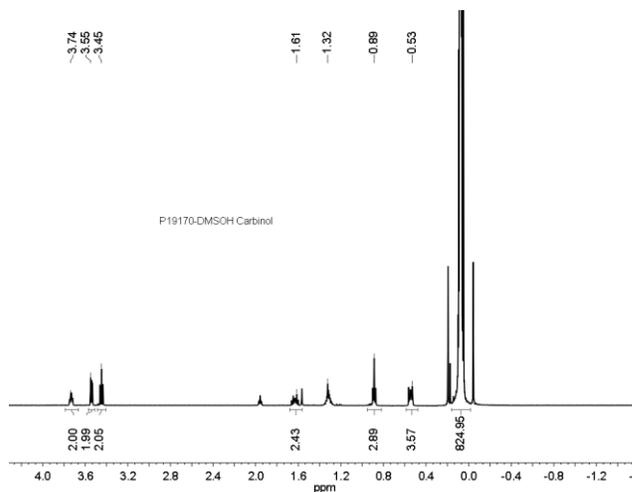
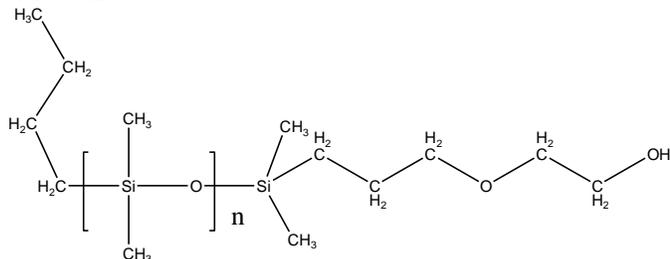


Sample Name:  
**Hydroxy (carbinol) Terminated  
 Polydimethylsiloxane-Monofunctional**

Sample #: P19170-DMSOH

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
10.0	1.10
OH functionality	> 99%

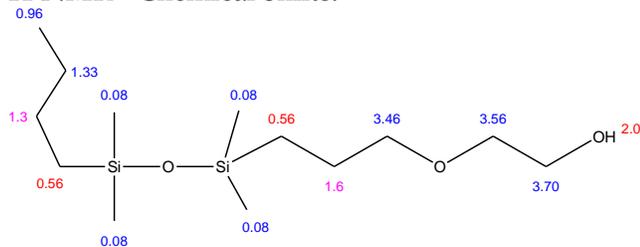
**Synthesis Procedure:**

Monohydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. For the details please see the reference.

**Characterization:**

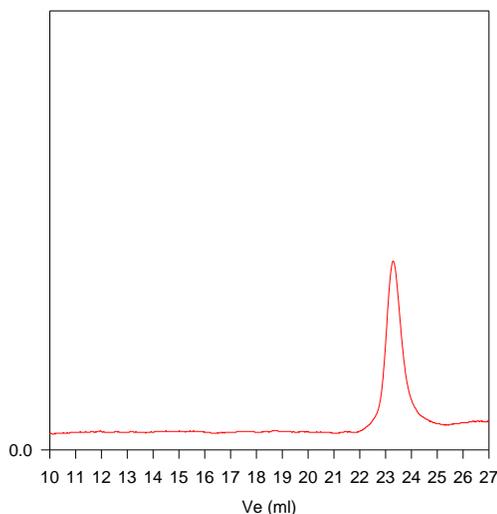
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**1H NMR - Chemical Shifts:**



**SEC of Sample:**

**P19170-DMSOH (carbinol)**



Size exclusion chromatography of monocarbinol terminated poly(dimethyl siloxane):

M<sub>n</sub>=10,000, M<sub>w</sub>=11,000, M<sub>w</sub>/M<sub>n</sub>=1.10, functionality=>0.98%

**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.