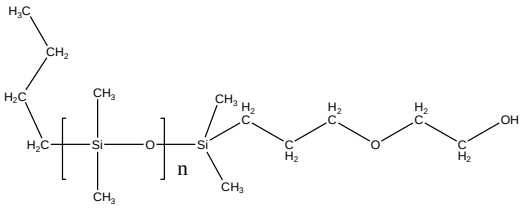
Sample Name: **Poly(dimethylsiloxane), ω-hydroxy [carbinol]-terminated**

Sample #: **P42443-DMSOH**

Structure:



Composition:

Mn x 10^3	PDI
0.9	1.10
OH functionality	> 99%

Synthesis Procedure:

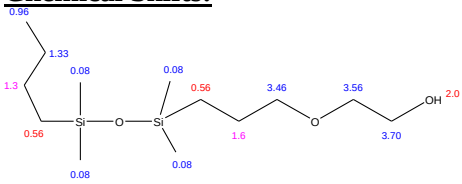
Monohydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. For the details please see the reference.

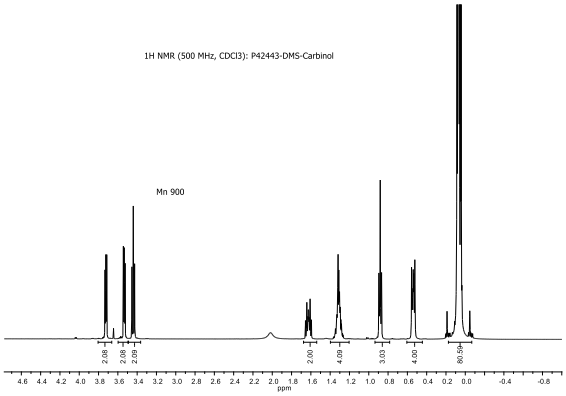
Characterization:

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.

H NMR spectrum of the Sample:

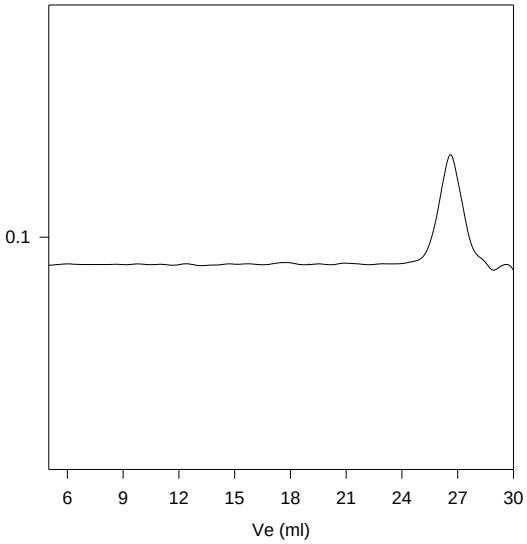
Chemical Shifts:





SEC profile of the Sample:

PDMSOH (carbinol) Lot# P42443-DMSOH



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

M_n=900, M_w=1,000 M_w/M_n=1.10, functionality>99% (cabinol)

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.