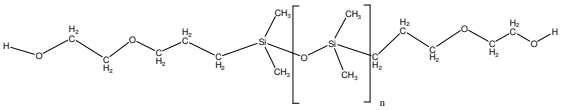
Sample Name:
α,ω-dicarbinol Terminated Polydimethylsiloxane Propyl Ethoxy linker
Sample #: **P19034-DMS2OH**

Structure:



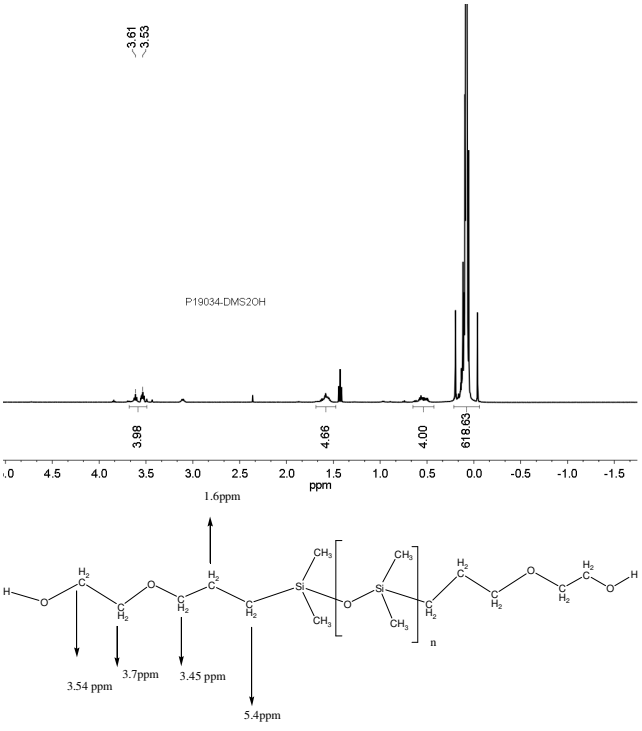
Composition:

Mn x 10^3	PDI
7.5	1.4

Synthesis Procedure:
dihydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. Silanol end groups were then modified to carbinol end groups.

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. Eluent was toluene at 35 oC.

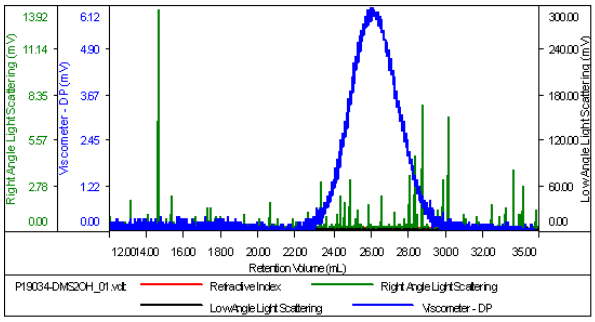
HNMR of the PDMS end functionalized with Carbinol to determine molecular weights by HNMR:



SEC of Homopolymer:

Sample ID: P19034-DMS2OH

Concentration (mg/mL)	0.0289
Sample dn/dc (mL/g)	0.1660
Method File	PS80K-Dec17-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Reference:

1. 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.