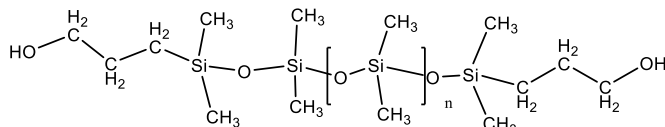


**Sample Name:** Poly(dimethylsiloxane),  $\alpha$ ,  $\omega$ -bis (hydroxy [carbinol])-terminated

*Propyl linker*

**Sample #:** P43133A-DMS2OH

### Structure:



### Composition:

Mn x 10 <sup>3</sup>	PDI
6.5	1.28

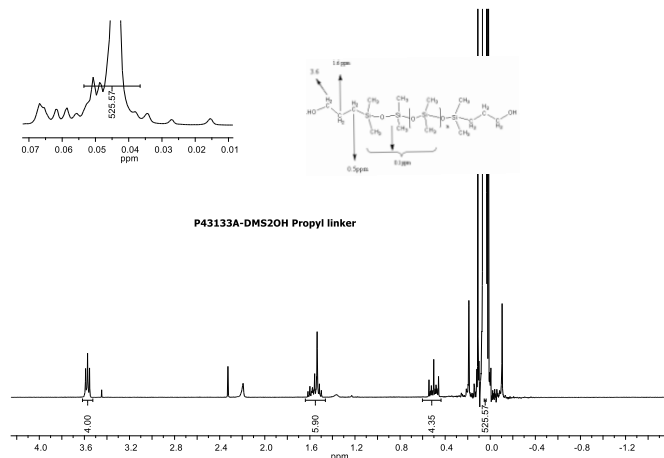
### Synthesis Procedure:

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.

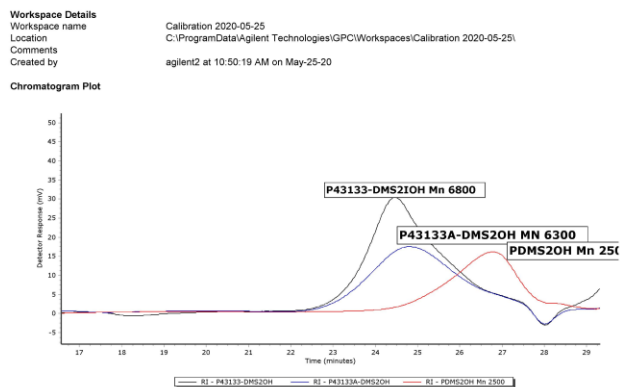
### Characterization:

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 °C.

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



### SEC profile of the Sample:



### 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.