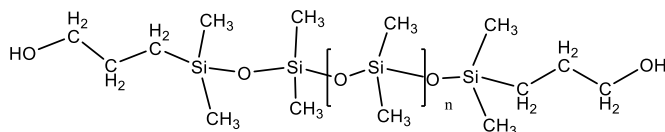


**Sample Name:** Poly(dimethylsiloxane),  $\alpha,\omega$ -bis(hydroxy [carbinol])-terminated

*Propyl linker*

**Sample #:** P43133-DMS2OH

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
6.3	1.28

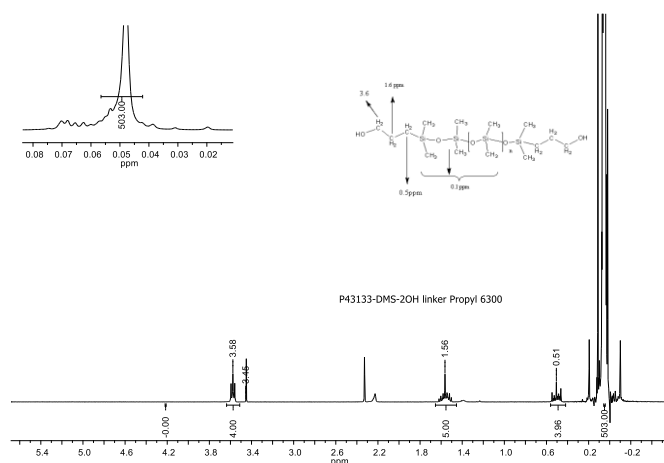
**Synthesis Procedure:**

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.

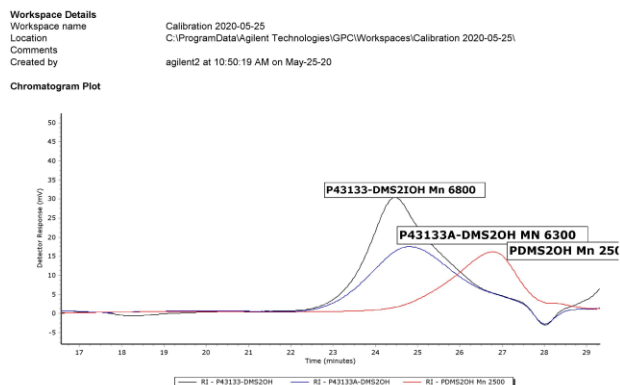
**Characterization:**

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.