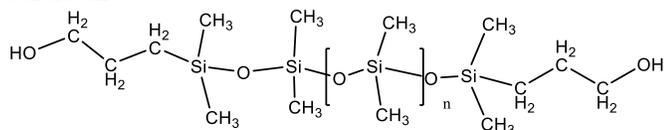


Sample Name: Poly(dimethylsiloxane), α,ω -bis(hydroxy [carbinol])-terminated

Propyl linker

Sample #: P43133-DMS2OH

Structure:



Composition:

| | |
|----------------------|------|
| Mn x 10 ³ | PDI |
| 6.3 | 1.28 |

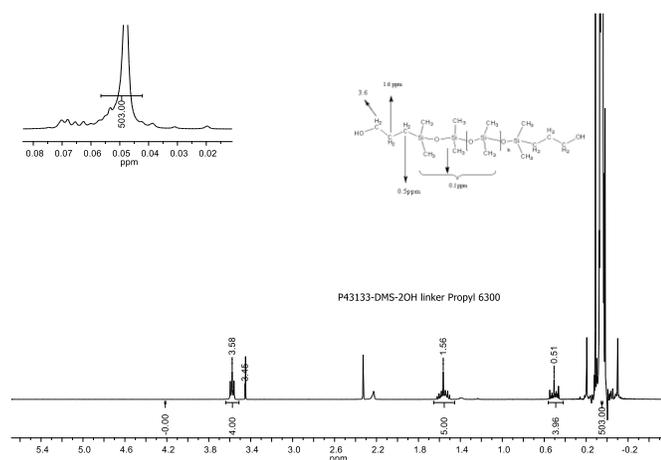
Synthesis Procedure:

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.

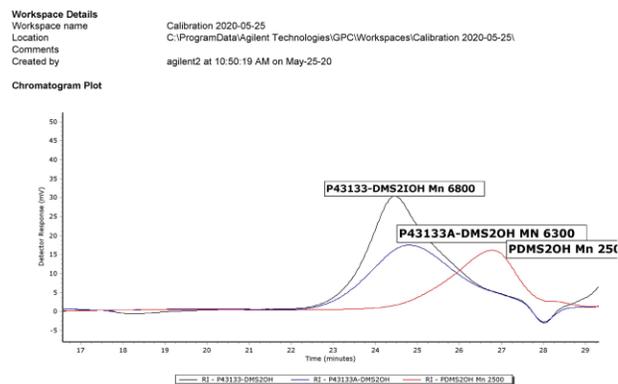
Characterization:

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.