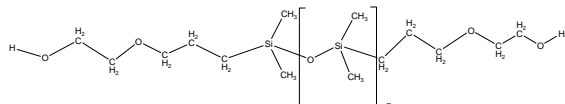


Sample Name: Poly(dimethylsiloxane), α , ω -bis
(hydroxy [carbinol])-terminated
Propyl Ethoxy linker

Sample #: P42674D-DMS2OH

Structure:



Composition:

$M_n \times 10^3$	PDI
1.2	1.2

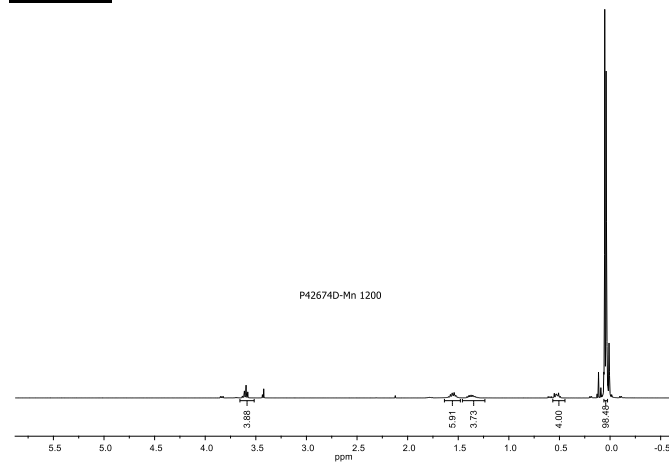
Synthesis Procedure:

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:

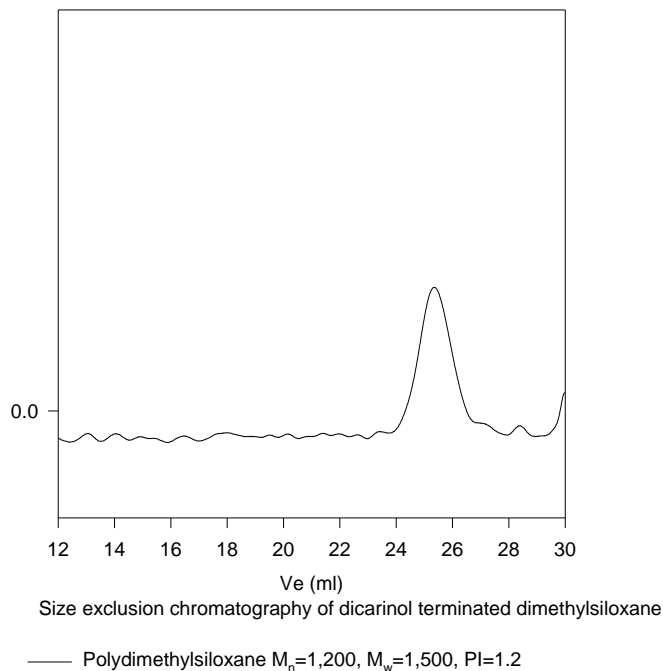
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Eluent was toluene at 35 °C.

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



SEC profile of the Sample:

P42674d-DMS2OH carbinol



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.