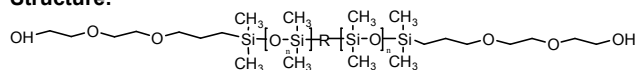


Sample Name:

**α,ω -dicarbinol Terminated Polydimethylsiloxane
P4319-DMS2OH**

Structure:

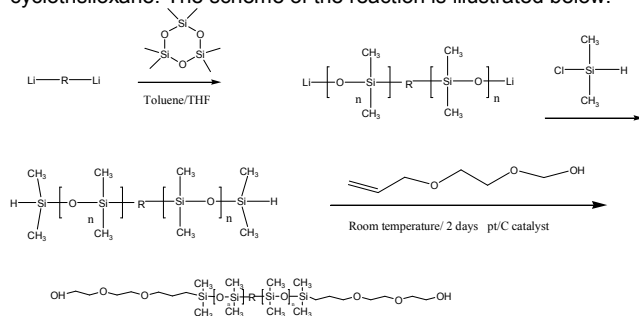


Composition:

Mn x 10 ³	PDI
4.5	1.5

Synthesis Procedure:

dihydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethylcyclotrisiloxane. The scheme of the reaction is illustrated below:

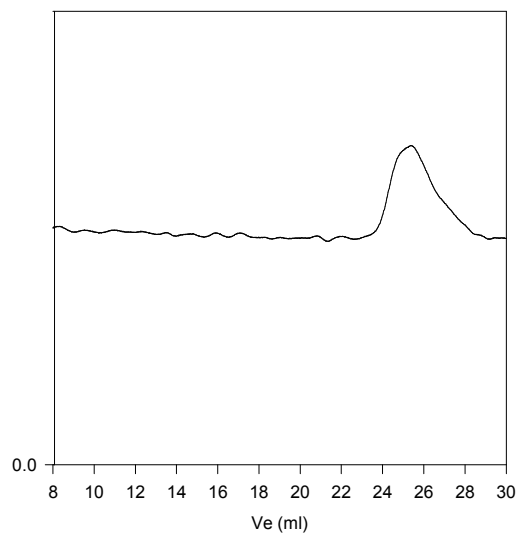


Characterization:

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.

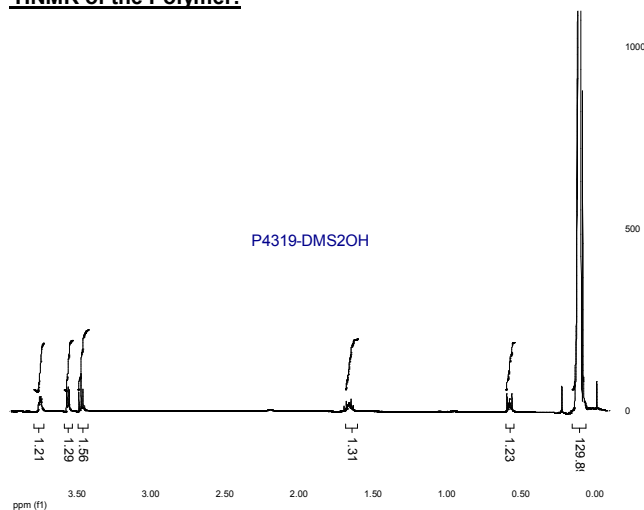
SEC of Sample:

P4319-DMS2OH (carbinol end group)



Size exclusion chromatography of dicarbinol terminated polydimethylsiloxane
— Polydimethylsiloxane $M_n=4500$, $M_w=6700$, $PI=1.5$

HNMR of the Polymer:



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.