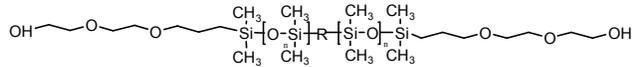


## Sample Name:

### $\alpha,\omega$ -dicarbinol Terminated Polydimethylsiloxane P4319-DMS2OH

#### Structure:

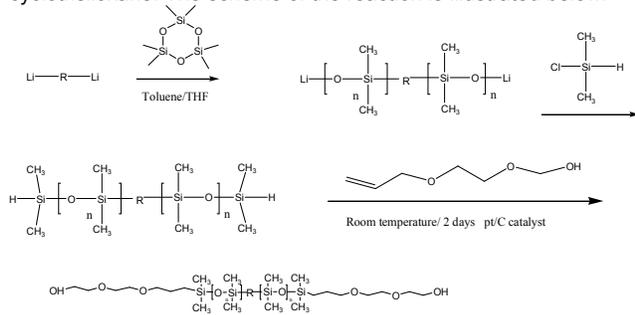


#### Composition:

Mn x 10 <sup>3</sup>	PDI
4.5	1.5

#### Synthesis Procedure:

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

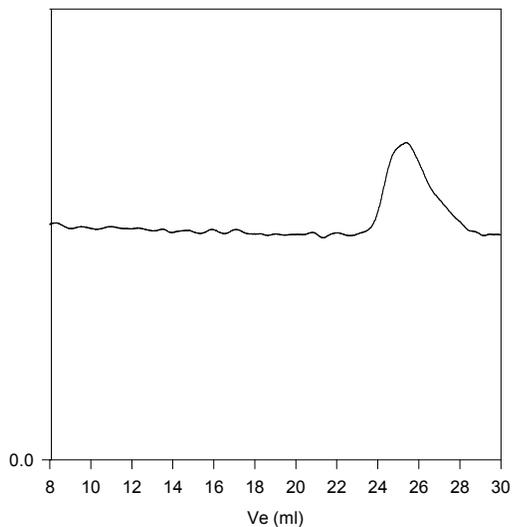


#### Characterization:

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.

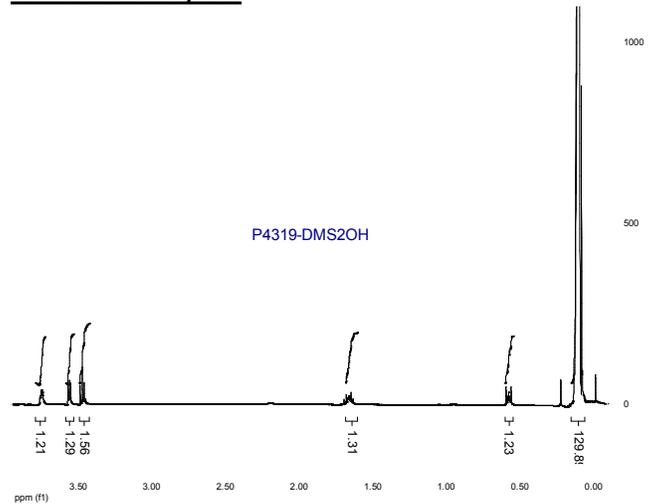
#### SEC of Sample:

##### 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.