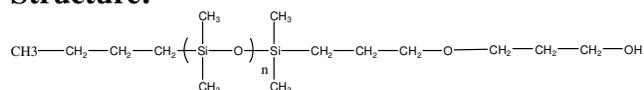


Sample Name:

**Hydroxy (carbinol) Terminated  
Polydimethylsiloxane-Monofunctional**

Sample #: **P10627A-DMSOH**

Structure:



Composition:

| Mn (g/mol) | M <sub>w</sub> /M <sub>n</sub> | Dp of DMS |
|------------|--------------------------------|-----------|
| 800        | 1.1                            | 14 units  |

Synthesis Procedure:

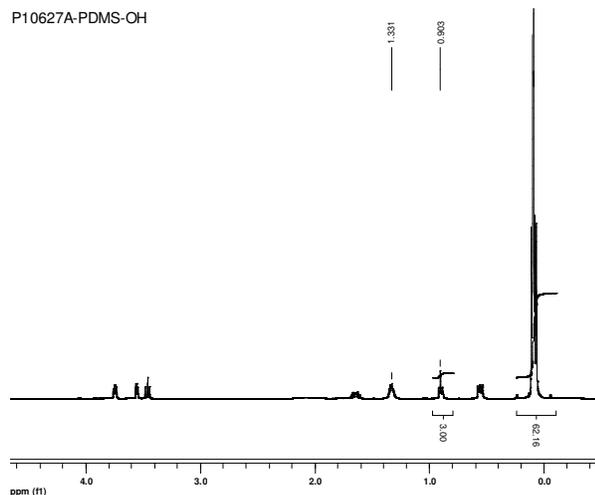
Monohydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. For more details, please, see the reference.

Characterization:

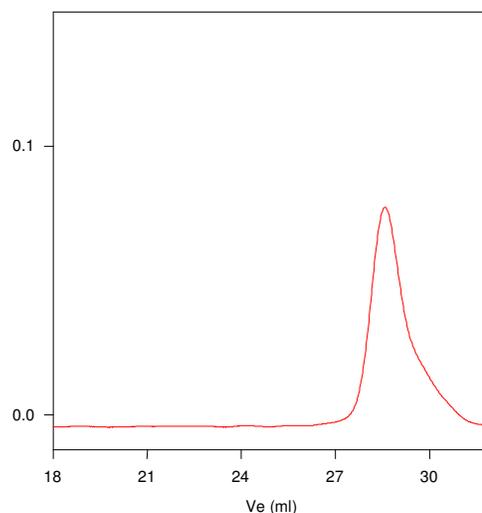
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detectors.

<sup>1</sup>H NMR:

P10627A-PDMS-OH



SEC:



Size exclusion chromatography of monocarbinol terminated poly(dimethyl siloxane):

M<sub>n</sub>=800, M<sub>w</sub>=900 M<sub>w</sub>/M<sub>n</sub>=1.10, functionality=0.94%

Reference:

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.