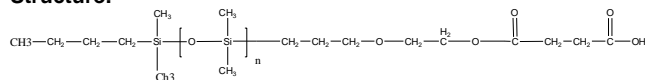


**Sample Name:**  
**Carboxy Terminated Polydimethylsiloxane**

**Sample #:** P8644-DMSCOOH

**Structure:**

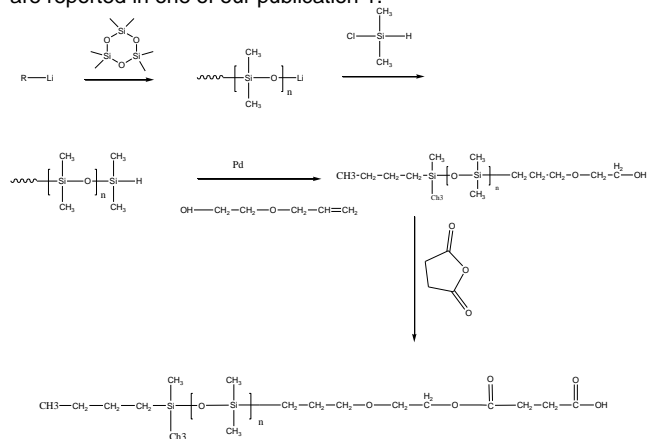


**Composition:**

Mn x 10 <sup>3</sup>	PDI
5.0	1.09

**Synthesis Procedure:**

Carboxy terminated polydimethylsiloxane was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane,. The details are reported in one of our publication 1.



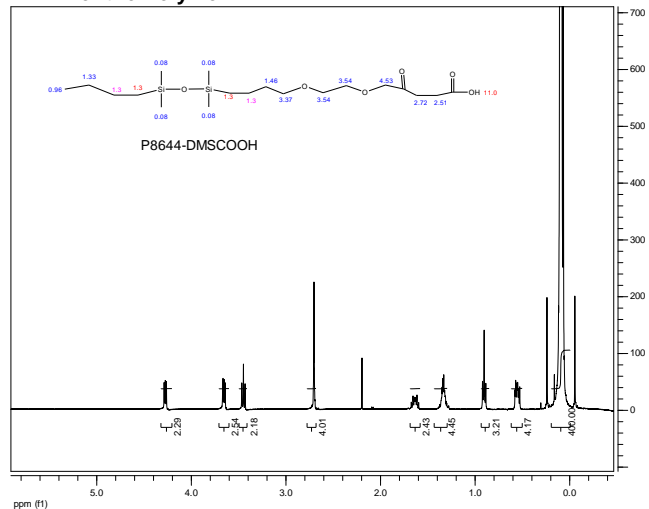
**Characterization:**

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.

**Solubility:**

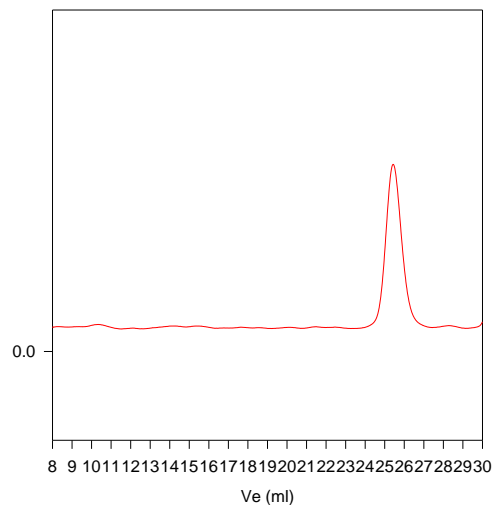
Polymer Soluble in hexane, THF, CHCl<sub>3</sub>.

**HNMR of the Polymer:**



**SEC of Sample:**

**P8644-DMSOH**  
 (monocarbinol terminated used to obtain P8644-DMSCOOH)



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

M<sub>n</sub>=5,000, M<sub>w</sub>=5,400 M<sub>w</sub>/M<sub>n</sub>=1.09, 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.