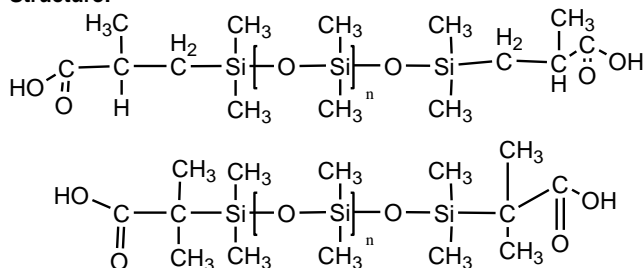


Sample Name:

## **$\alpha,\omega$ -Dicarboxy decyl Terminated Polydimethylsiloxane**

Sample#: **P14757-DMS2COOH**

Structure:

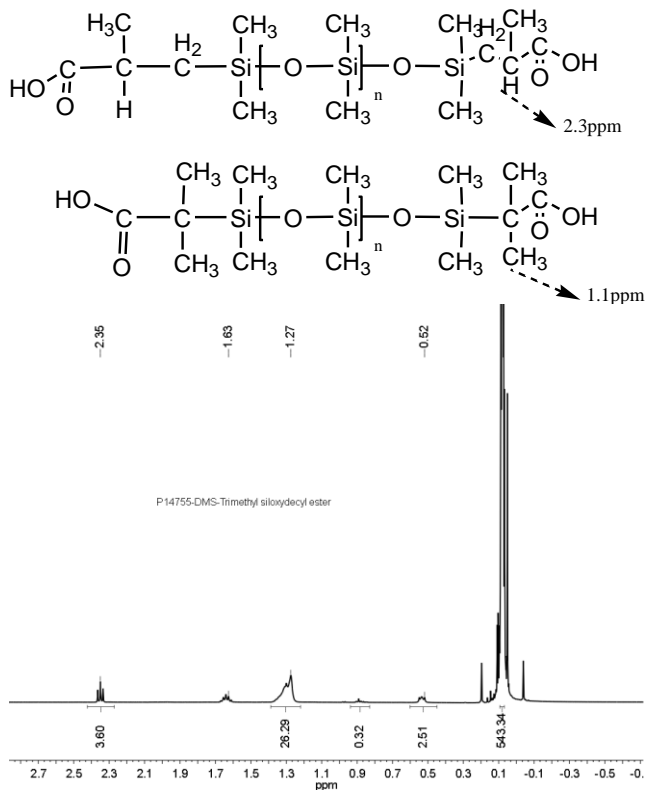


Composition:

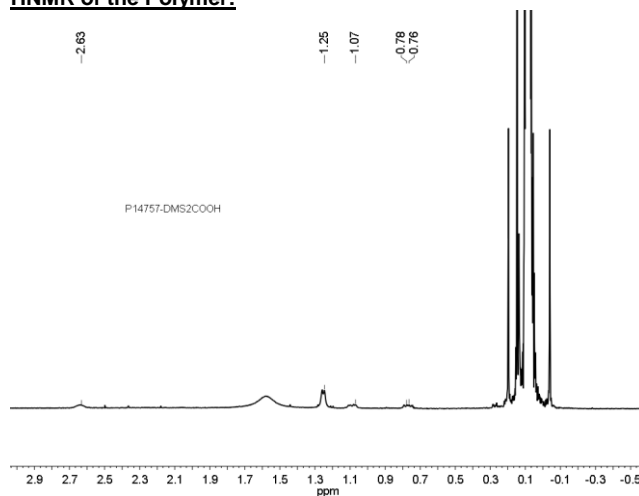
Mn x 10 <sup>3</sup>	PDI
6.0	1.3

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.



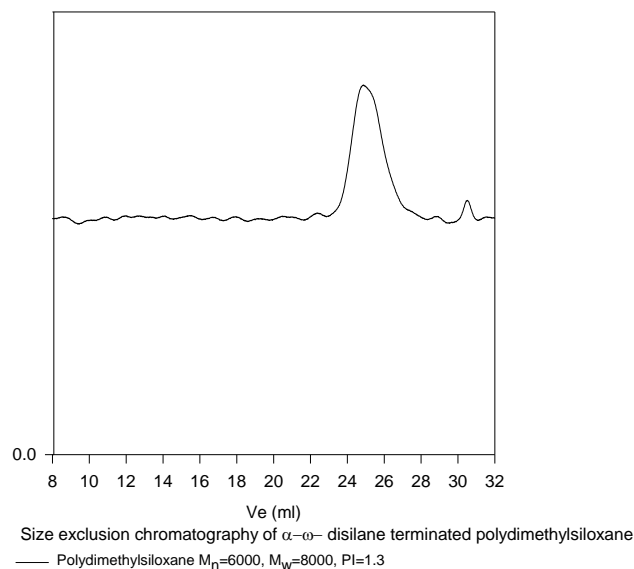
**HNMR of the Polymer:**



**SEC:**

DMS-Disilane used

**P14755-DMS2SiH**



**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.

After Hydrolysis : DMS-dicarboxy terminated PDMS