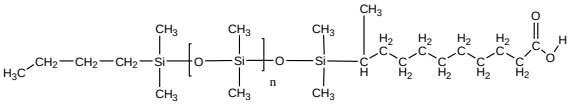
Sample Name:
Poly(dimethylsiloxane), ω-(carboxy decyl)-terminated

Sample #: **P18578-DMS-C10COOH**

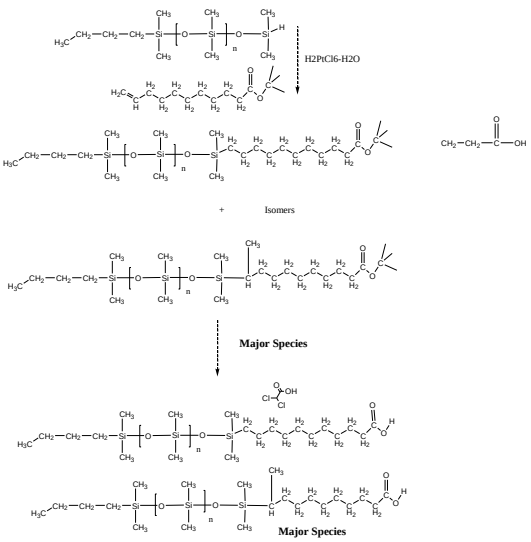
Structure:



Composition:

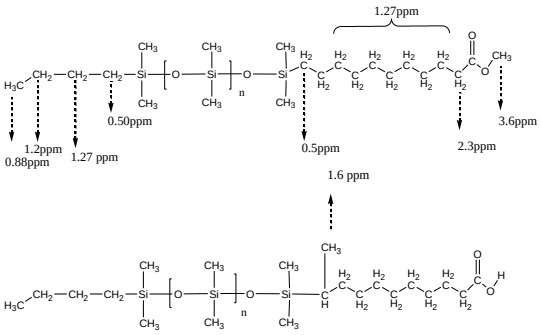
Mn x 10^3	PDI
1.0	1.2

Synthesis Procedure:
Carboxy terminated polydimethylsiloxane was prepared by living anionic polymerization of hexamethyl cylotrisiloxane,

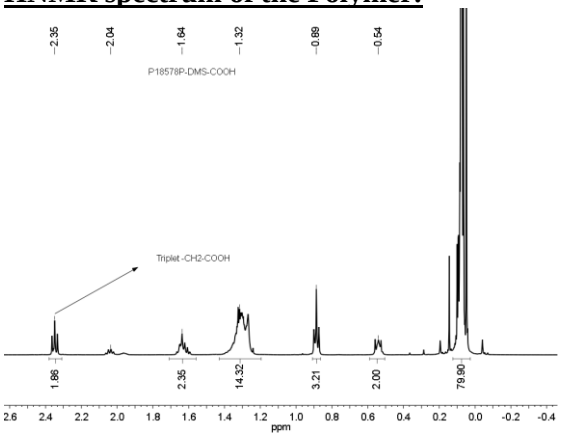


Characterization:
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:
Polymer is Soluble in hexane, THF, CHCl3.

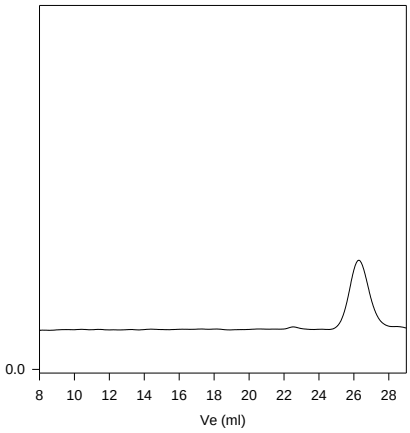


HNMR spectrum of the Polymer:



SEC profile of the Sample:

P18578-DMS-C10-COOH



Size Exclusion Chromatography in THF at 35 °C w.r.t PDMS standards.

M_n =1000, M_w =1,200, PI=1.2

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.