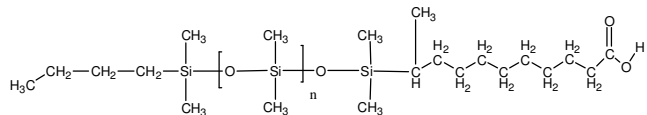


Sample Name:
MONOCARBOXYDECYL TERMINATED
POLYDIMETHYLSILOXANE,

Sample #: P18615-DMSC10COOH

Structure:

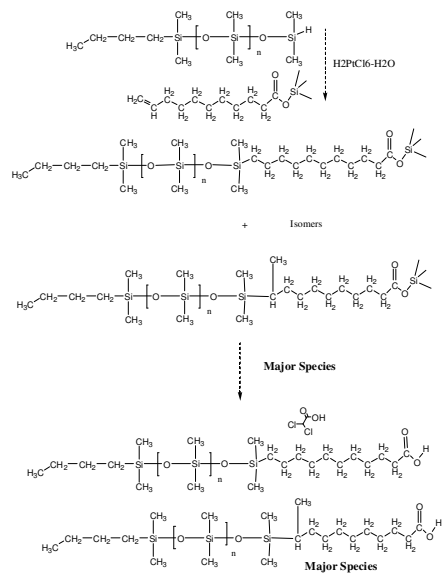


Composition:

Mn x 10 ³	PDI
2.7	1.09

Synthesis Procedure:

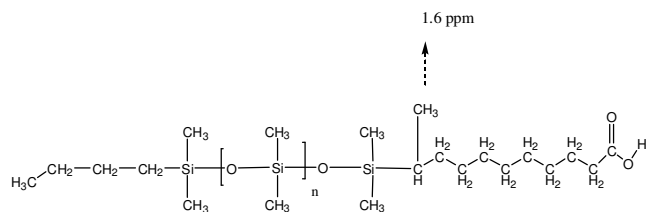
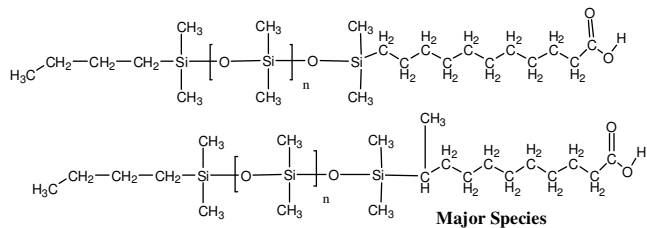
Carboxy terminated polydimethylsiloxane was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane,



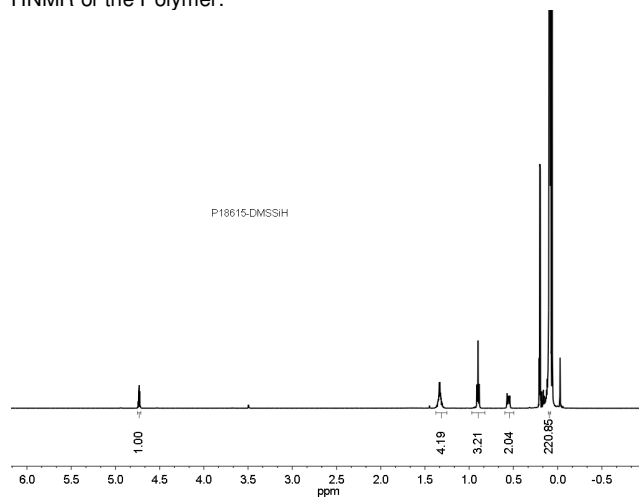
Characterization:

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, CHCl₃.



¹H NMR of the Polymer:



SEC of Sample:

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.