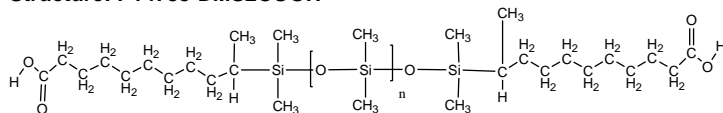


Sample Name:

HNMR of the Polymer:

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

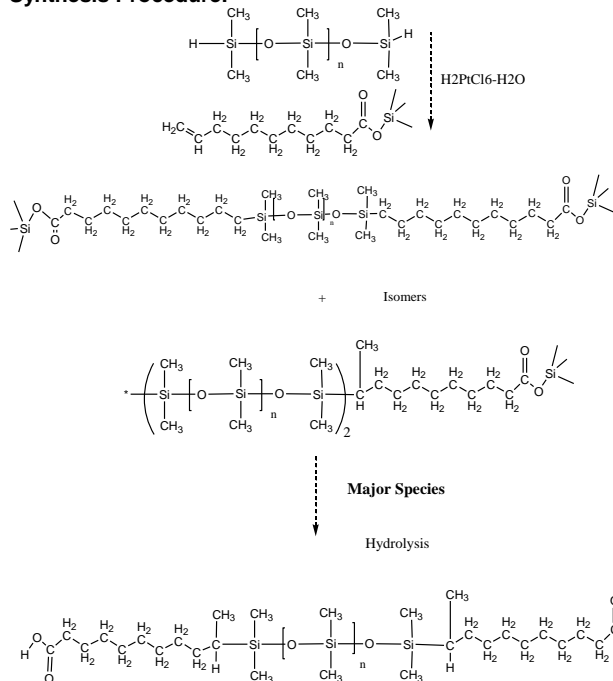
Structure: P14755-DMS2COOH



Composition:

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

Synthesis Procedure:

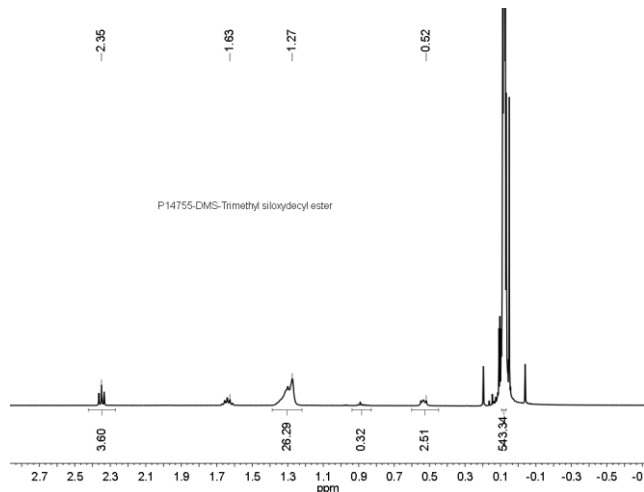


Major Species

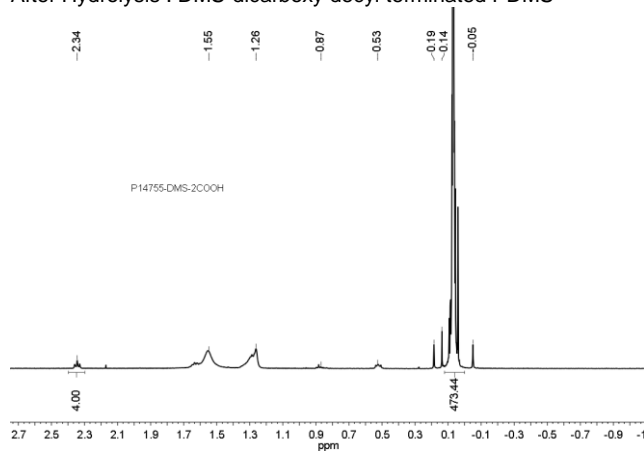
**Characterization:**  
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

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.

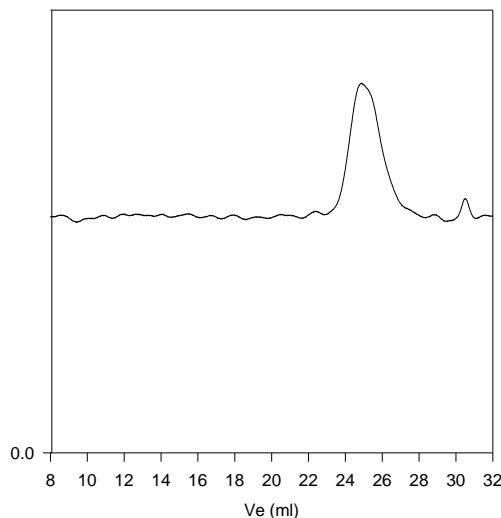


After Hydrolysis : DMS-dicarboxy decyl terminated PDMS



SEC:

P14755-DMS2SiH



Size exclusion chromatography of  $\alpha,\omega$ -disilane terminated polydimethylsiloxane  
— Polydimethylsiloxane  $M_n=6000$ ,  $M_w=8000$ ,  $PI=1.3$