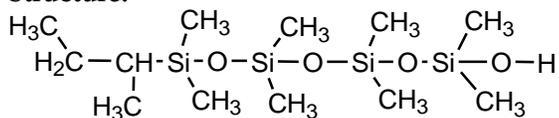


## Sample Name: Polydimethyl siloxane Oligomers

Sample #: P10862-C-Tetramer

Structure:



Composition:

Mn x 10 <sup>3</sup>	PDI
0.354	1.10

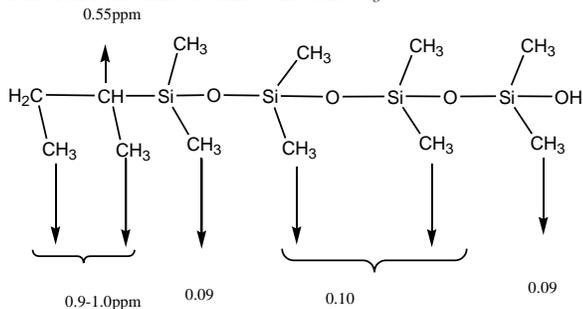
Synthesis Procedure:

Oligomers of polydimethyl siloxane was synthesized by anionic polymerization of the cyclic trimer (hexamethyl cyclotrisiloxane-D3) in different solvents mixture. The fractions were carried out by column chromatography using combination of Hexane and ethanol.

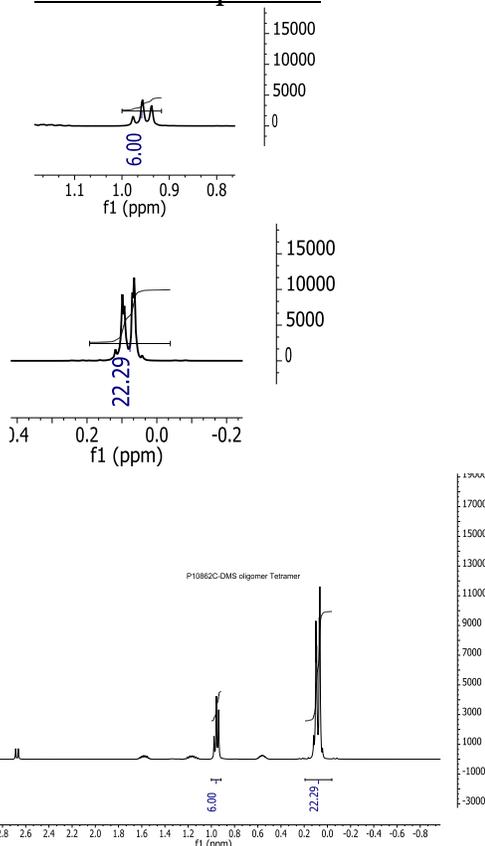
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in toluene. SEC was calibrated with well characterized poly dimethyl siloxane polymers. HNMR analysis was used to calculate of degree of polymerization.

HNMR chemical shifts in CDCl<sub>3</sub>:

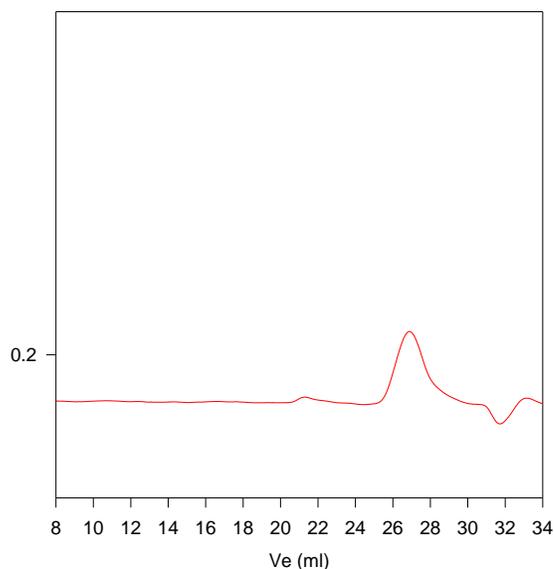


HNMR of the product:



SEC of oligomer:

P10862-C- Polydimethylsiloxane Oligomer



Size Exclusion Chromatography of the product:

Dp of DMS Tetramer      Mw/Mn 1.10