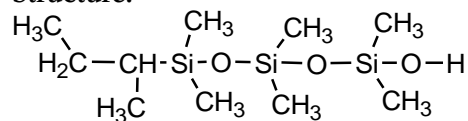


Sample Name: Polydimethyl siloxane Oligomers

Sample #: P10862-G-DMS

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 0.28 | 1.10 |
| Dp: 3 | |

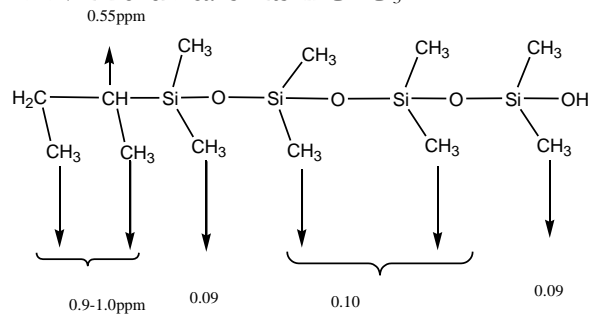
Synthesis Procedure:

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.

H NMR chemical shifts in CDCl₃



HNMR of the product:

