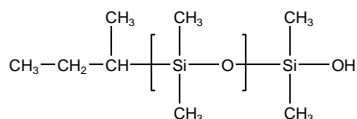


**Sample Name: Polydimethyl siloxane**  
**Mono silanol end terminal group**

**Sample #: P44371-DMS-Silanol**

**Structure:**

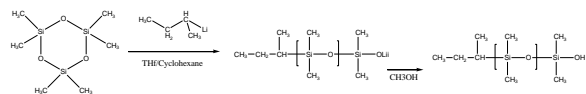


**Composition:**

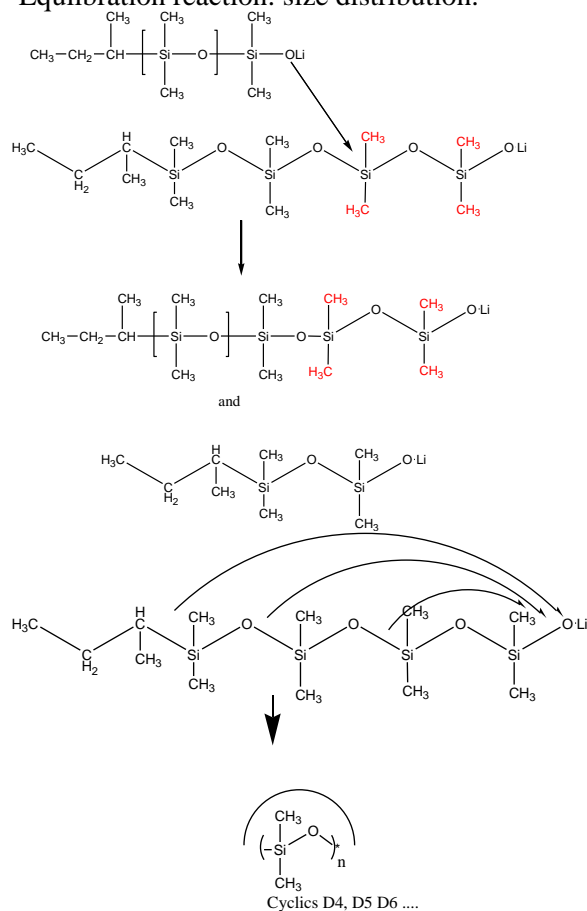
Mn x 10 <sup>3</sup>	PDI
6.5	1.4

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization process:



**Equilibration reaction: size distribution.**



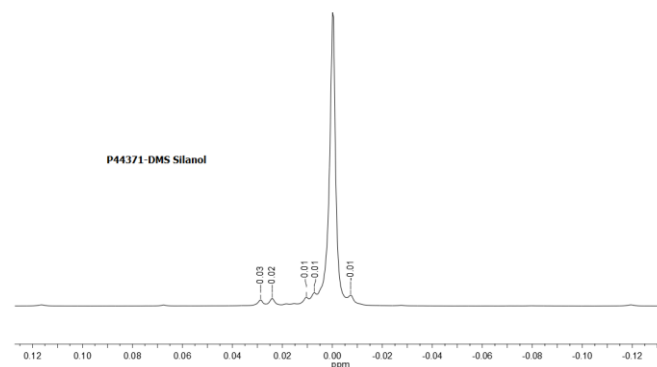
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

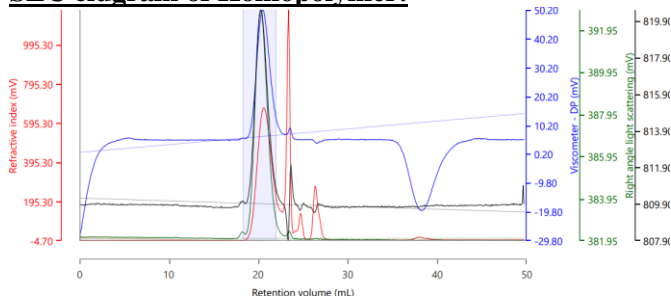
**Solubility:**

Polysiloxane is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

**<sup>1</sup>H NMR spectrum of Homopolymer:**



**SEC elugram of Homopolymer:**



Results (Columns)	
P44371-DMS Injection 1 Peak 1	
Mn (g/mol)	6,462
Mw (g/mol)	9,338
Mw/Mn	1.445
Mp (g/mol)	8,424