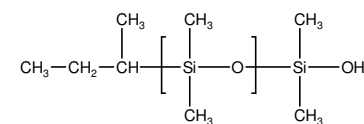
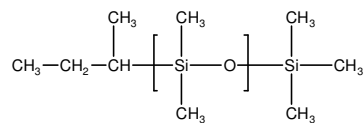


## Sample Name: Polydimethyl siloxane

Sample #: PDMS-4K

### Structure:

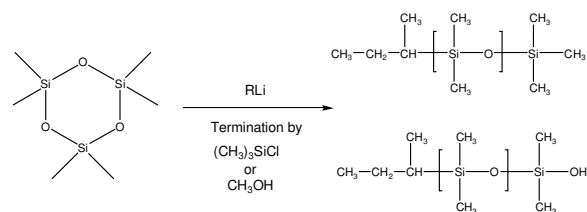


### Composition:

$M_n \times 10^3$	PDI
4.5	1.38

### Synthesis Procedure:

The polymerization of the cyclic trimer (hexamethyl cyclotrisiloxane-D3) was initiated with a monofunctional lithium based initiator in a polar / non-polar solvent mixture.



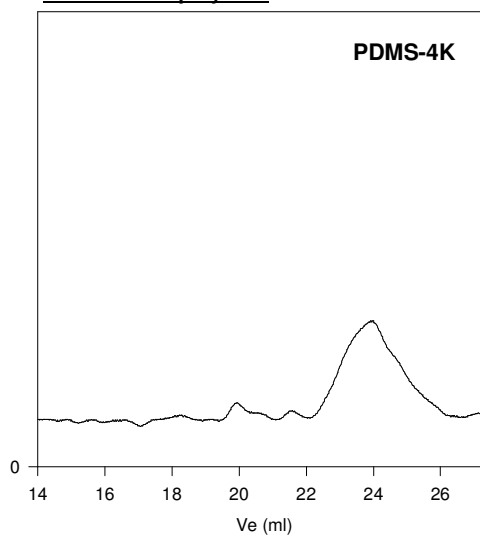
### Characterization:

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.

### SEC of Homopolymer:



Size Exclusion Chromatography of Poly(dimethyl siloxane)

$M_n=4500$ ,  $M_w=6200$ ,  $PI=1.38$