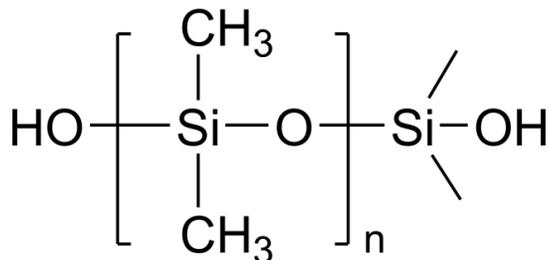


Sample Name: Polydimethylsiloxane Disilanol terminal group

Sample #: P9935-DMS

Structure:



Composition:

$M_n \times 10^3$	PDI
6.0	1.10

Synthesis Procedure:

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

Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

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

**SEC profile of Homopolymer:
P9935-DMS**

