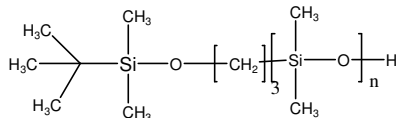


Sample Name:

α - tert.butyl dimethyl siloxy ω -silanol Terminated Polydimethylsiloxane

Sample #: **P5657-DMS tert.Butoxy OH**

Structure:



Composition:

Mn x 10 ³	PDI
2.3	1.10

Synthesis Procedure: Prepared by anionic polymerization using tert.butyl siloxy propyllitium as initiator.

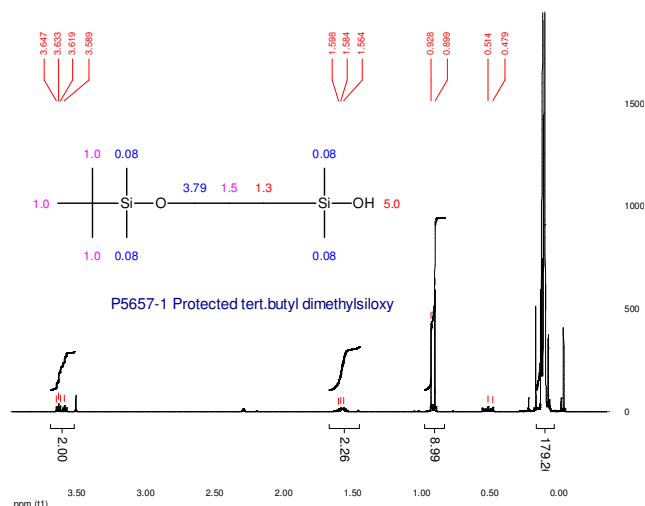
Characterization:

The molecular weight was calculated from NMR by comparing the tert.butyl group protons at 1.0 ppm and the dimethylsiloxane methyl group at 0.08ppm, the polydispersity index of this polymer was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

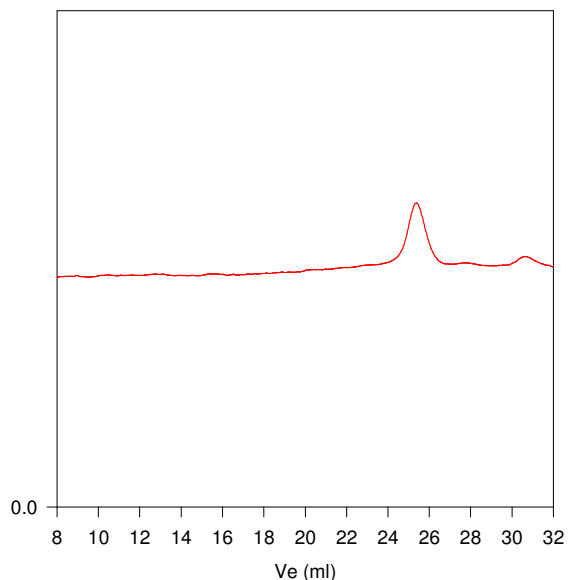
The polymer is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol

¹H NMR spectrum of the polymer



SEC elugram of the polymer:

P5657-DMSSiOH



Size Exclusion Chromatography of the polymer in THF

Mn : 2300, Mw: 2500 PI=1.10 tert.butoxy siloxy functionality>99%