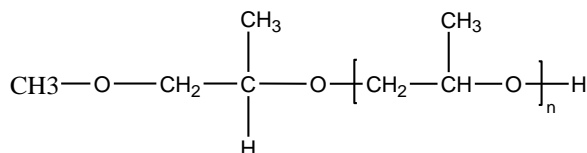


Sample Name:
Poly propylene glycol methyl ether

Sample #: P6433-POOH3

Structure:

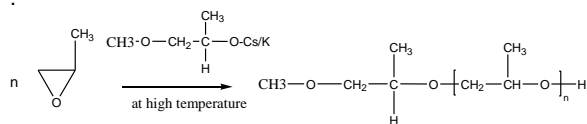


Composition:

Mn x 10 ³	PDI
3.8	1.12

Synthesis Procedure:

Polypropylene oxide is synthesized by anionic polymerization of propylene oxide as illustrated in the reaction scheme below



Characterization:

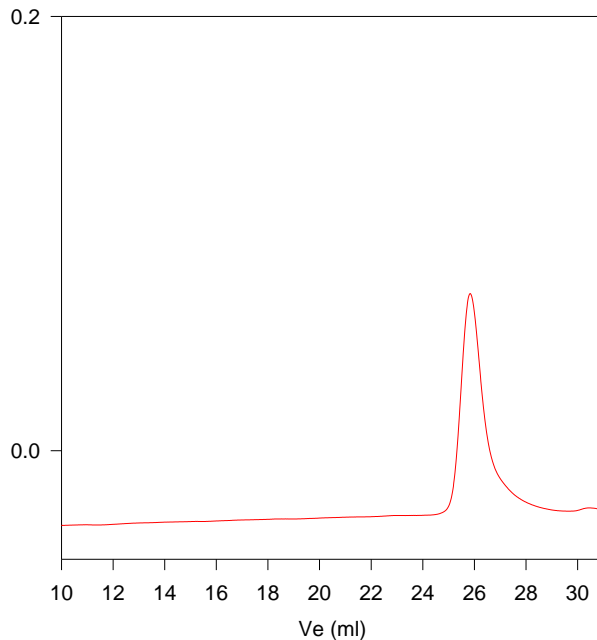
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polymer is soluble in CHCl₃, methanol, ethanol, THF, toluene .

SEC of the polymer:

P6433-POOH3



Size Exclusion Chromatography of Poly(propylene glycol) methyl ether

M_n=3800, M_w=4300, PI=1.12

