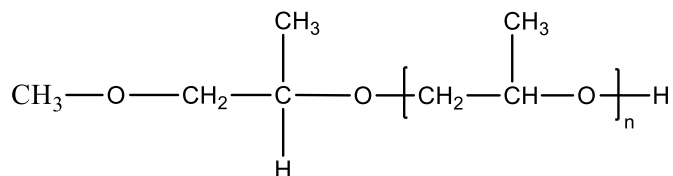


Sample Name: Poly (propylene glycol) methyl ether

Sample # P41042-POOCH3

Structure:

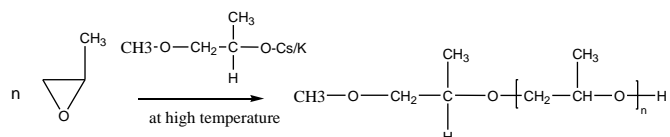


Composition:

$M_n \times 10^3$ (g/mol)	PDI (M_w/M_n)
0.70	1.18

Synthesis Procedure:

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



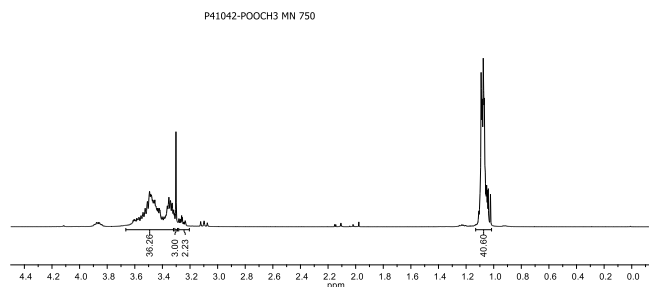
Characterization:

The molecular weight and polydispersity index (PDI) were 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:

The polymer is soluble in chloroform, methanol, ethanol, THF and toluene.

^1H NMR spectrum of the Sample:



SEC elugram of the Sample:

