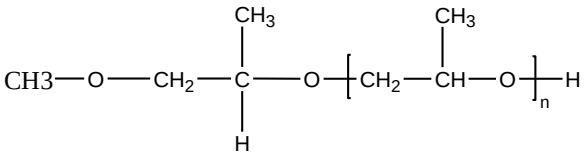
Sample Name:
Poly propylene glycol methyl ether

Sample #: **P42434G-PO-OCH3**

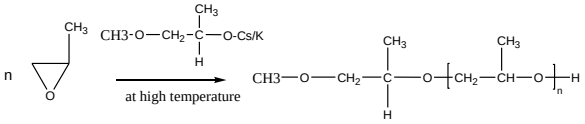
Structure:



Composition:

Mn x 10^3	PDI
15.0	1.09

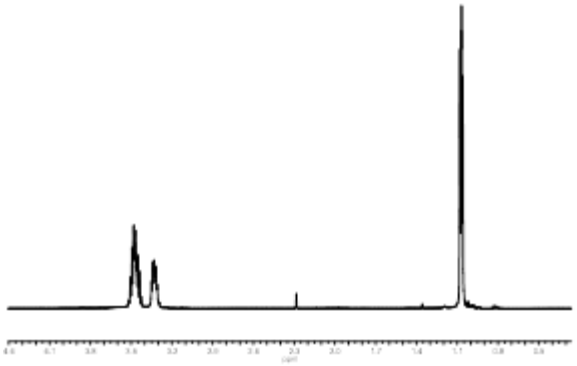
Synthesis Procedure:
Polypropylene oxide is synthesized by anionic polymerization of propylene oxide as illustrated in the reaction scheme below.



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, and toluene.

HNMR spectrum of the polymer:



SEC profile of the polymer: