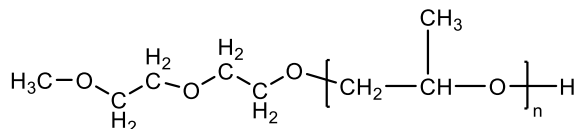


Sample Name:

Poly propylene glycol methyl ether

Sample #: **P42434K-PO-OCH3**

Structure:

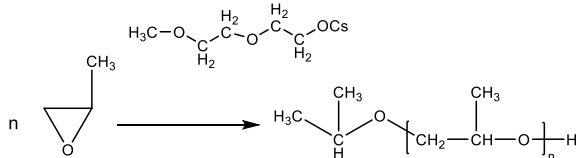


Composition:

Mn x 10 ³	PDI
4.0	1.35

Synthesis Procedure:

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



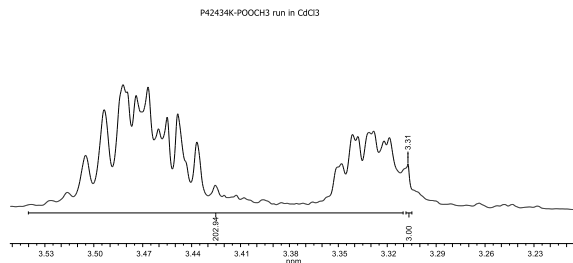
Characterization:

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.

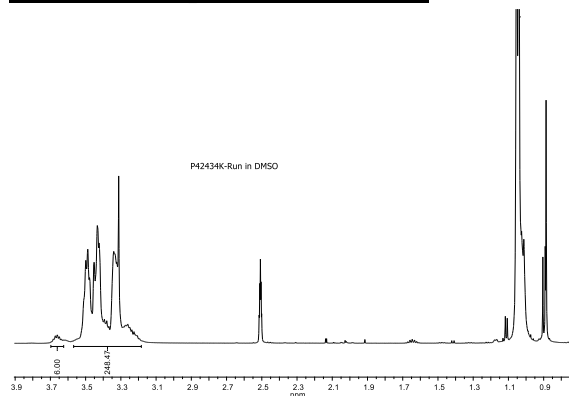
Solubility:

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

HNMR of the polymer in CdCl₃:



HNMR of the polymer in DMSO:



SEC elugram of the polymer:

