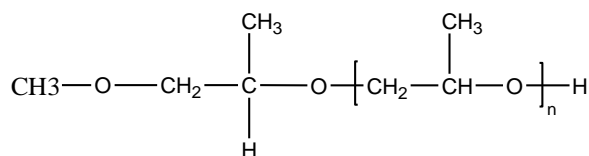


Sample Name:

Poly propylene glycol methyl ether

Sample #: **P42434F-PO-OCH3**

Structure:

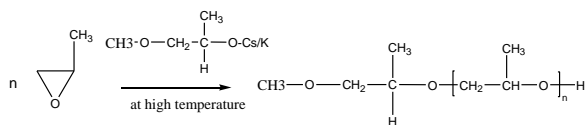


Composition:

$M_n \times 10^3$	PDI
12.4	1.36

Synthesis Procedure:

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



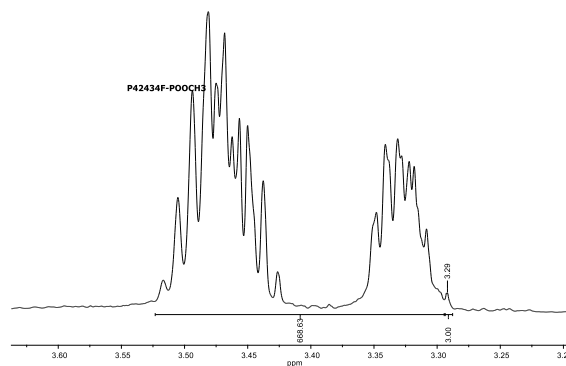
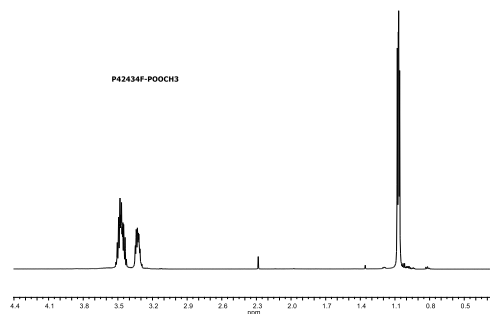
Characterization:

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 CHCl_3 , methanol, ethanol, THF and toluene.

HNMR spectrum of the polymer:



SEC profile of the polymer:

