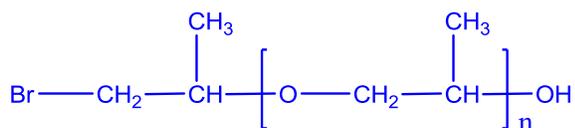


Sample Name:
 α -Bromo- ω -Hydroxy terminated
Poly(propylene glycol)

Sample #: P10741-POBrOH

Structure:

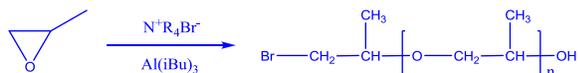


Composition:

Mn x 10 ³	PDI
6.0	1.3

Synthesis Procedure:

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



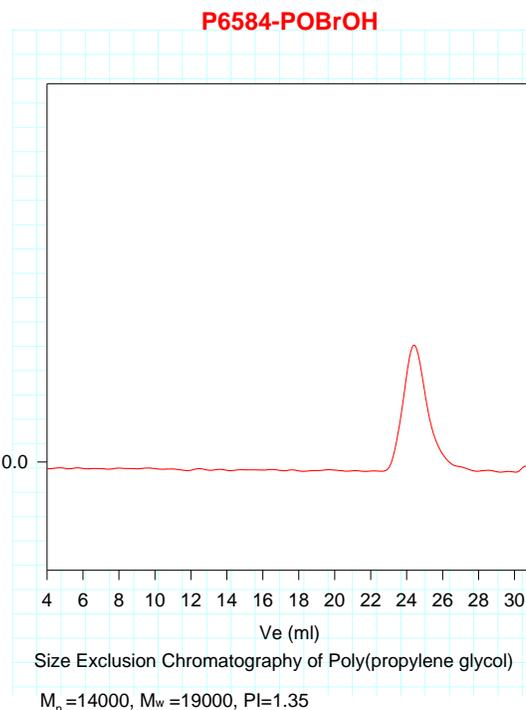
Characterization:

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.

SEC of the polymer:



¹H NMR for the polymer:

