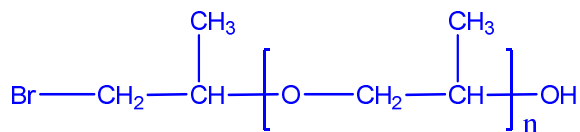


**Sample Name:**  
Poly(propylene glycol)

**Sample #:** P18680-POBrOH

**Structure:**

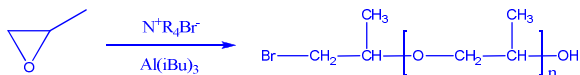


**Composition:**

Mn x 10 <sup>3</sup>	PDI
15.5	1.12

**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.

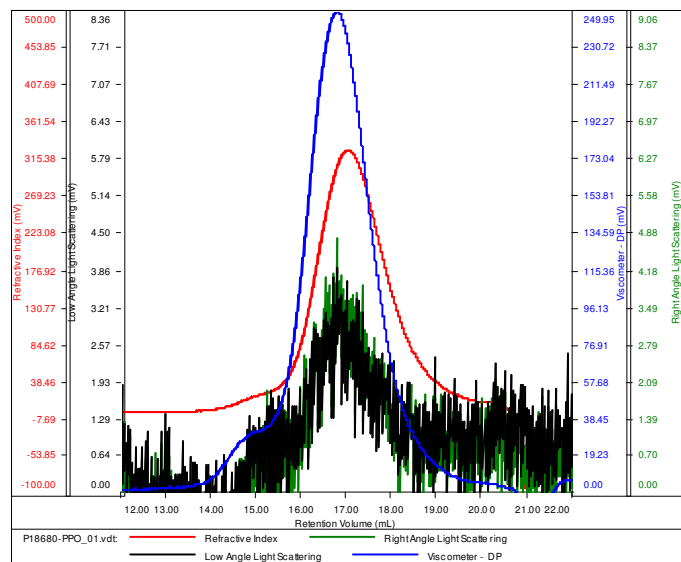
**Solubility:**

Polymer is soluble in CHCl<sub>3</sub>, methanol, ethanol, THF, toluene.

**SEC of the polymer:**

**SAMPLE ID:** P18680-PPO

Conc (mg/mL)	28.9366
dn/dc (mL/g)	0.0350
Method	ps80k-May2014-0003.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18680-PPO_01.vdt	15,730	17,533	19,176	1.115	0.1782

**H NMR:**

