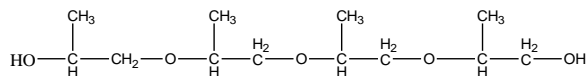


Sample Name:

α,ω - dihydroxy terminated-polypropylene glycol Oligomer
Tetramer

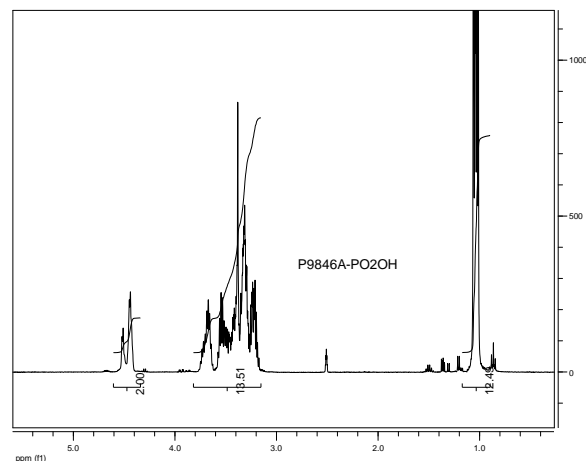
Sample #: **P9846A**

Structure:



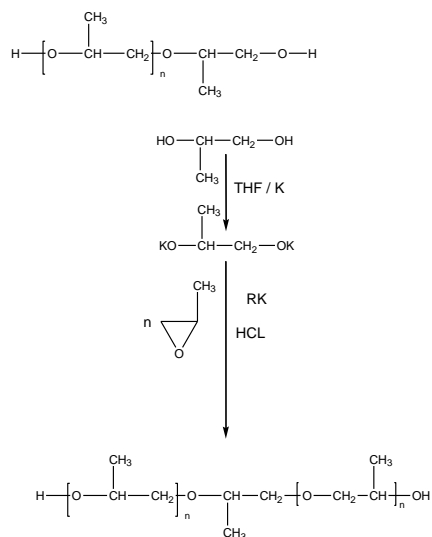
Composition:

Mn x 10 ³	PDI
0.250	1.06



Synthesis Procedure:

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



Characterization:

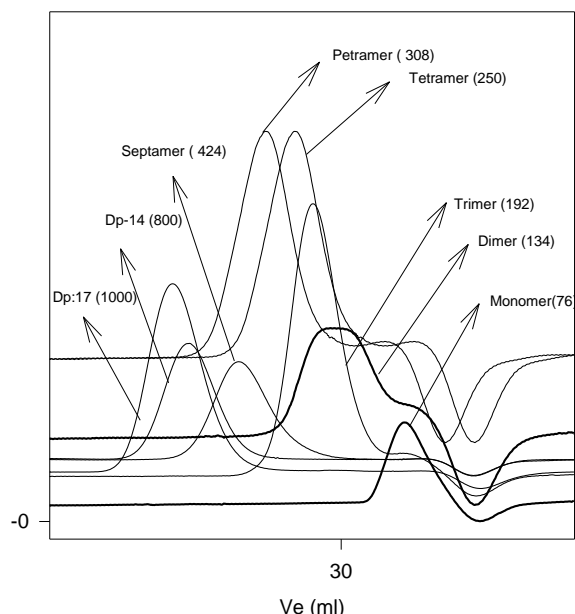
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

The reaction mixture is filtered to remove the precipitated KCl after which the solvent is removed under reduced pressure.

SEC of Homopolymer:

Oligomers of Polypropylene glycol



Size exclusion chromatography of oligomers:

- 1. Monomer (Mass 76) 2. Dimer (Mn: 134) 3. Trimer: Mn (192)
- 4. Tetramer (Mn 250) 5. Pentamer (Mn 308) 6. Septamer (Mn 424)
- 7. Dp=14 (Mn 800) 8. Dp: 17 (Mn 1000)