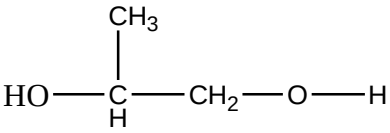
Sample Name:

α,ω- dihydroxy terminated-propylene glycol monomer

Sample #: **P9822-PO2OH**

Structure:

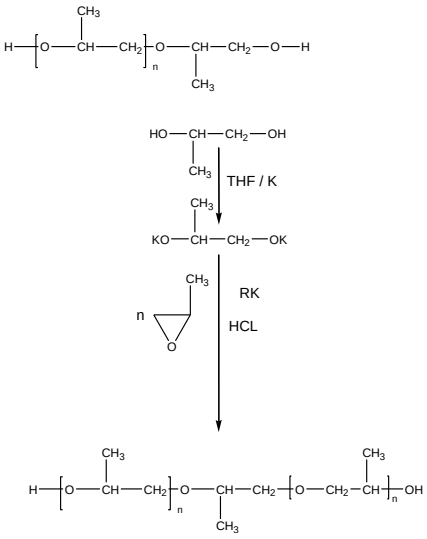


Composition:

Mn x 10^3	PDI
0.076	1.0

Synthesis Procedure:

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



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Characterization:

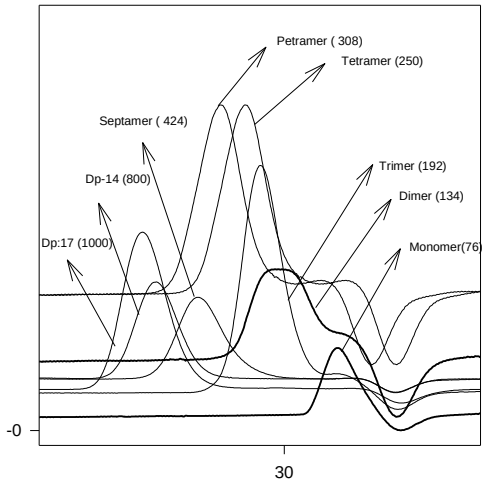
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

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

SEC:

Oligomers of Poylpropylene 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)