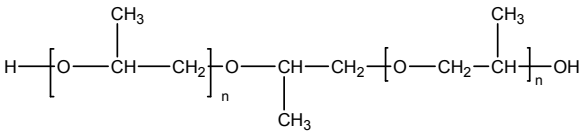
Sample Name:
α,ω- dihydroxy terminated-polypropylene oxide or Poly propylene glycol

Sample #: **P6794-PO2OH**

Structure:



Composition:

Mn x 10^3	PDI
10.0	1.40

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

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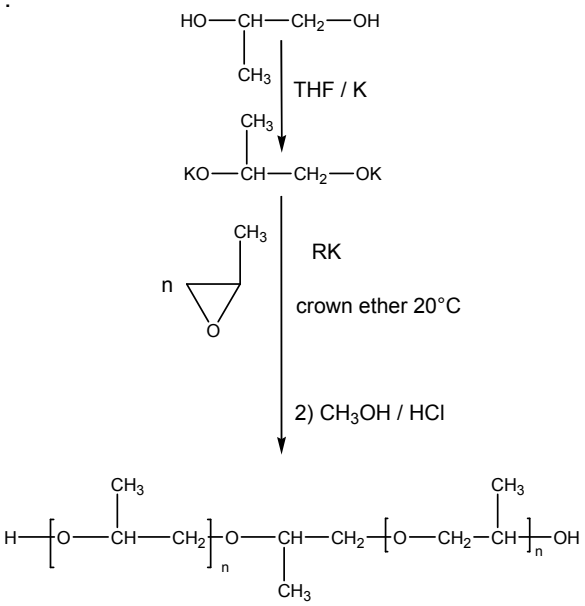
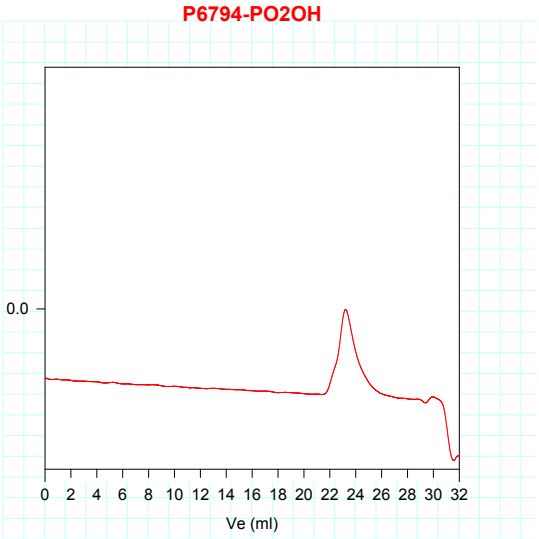


Characterization:

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. The polymer is then re dissolved in iso-octane, and recover after keeping the solution at -10 oC.

SEC of Homopolymer:



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene oxide)
M_n =10000, M_w =14000, PI=1.40