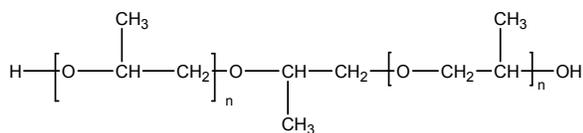


Sample Name:

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

Sample #: P6794A-PO2OH

Structure:

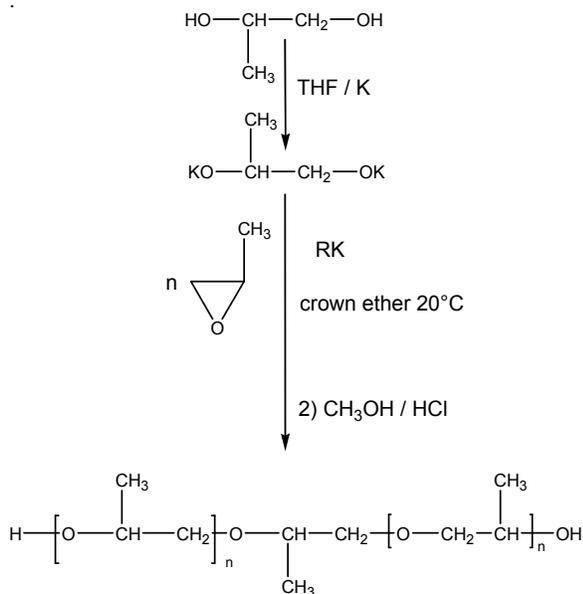


Composition:

$M_n \times 10^3$	PDI
8.0	1.25

Synthesis Procedure:

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



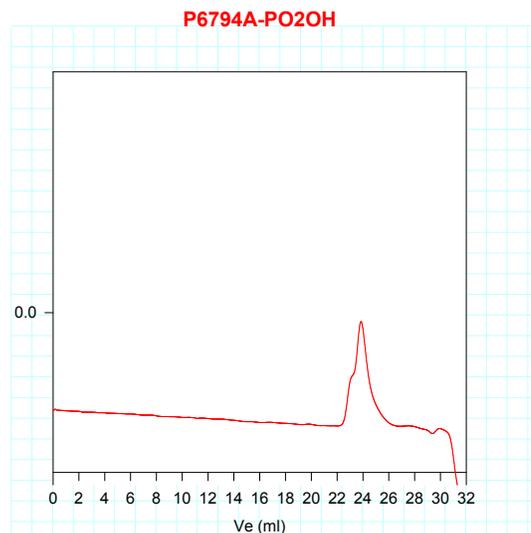
Characterization:

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

SEC of Homopolymer:



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene oxide)
 $M_n=8000$, $M_w=10000$, $PI=1.25$