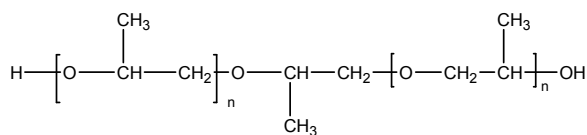


### Sample Name:

$\alpha,\omega$ - dihydroxy terminated-polypropylene oxide or Poly propylene glycol

Sample #: P6794A-PO2OH

### Structure:

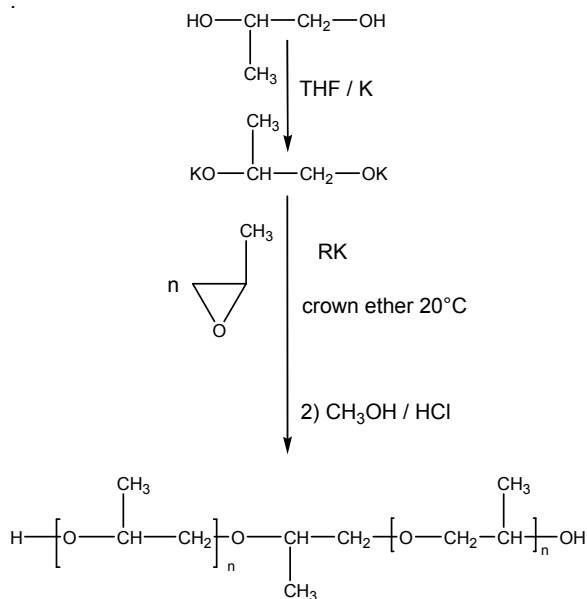


### Composition:

$M_n \times 10^3$	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 oC.

### SEC of Homopolymer:



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