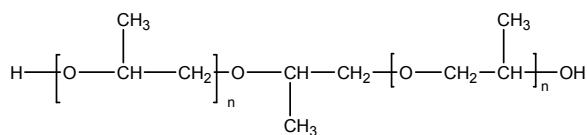
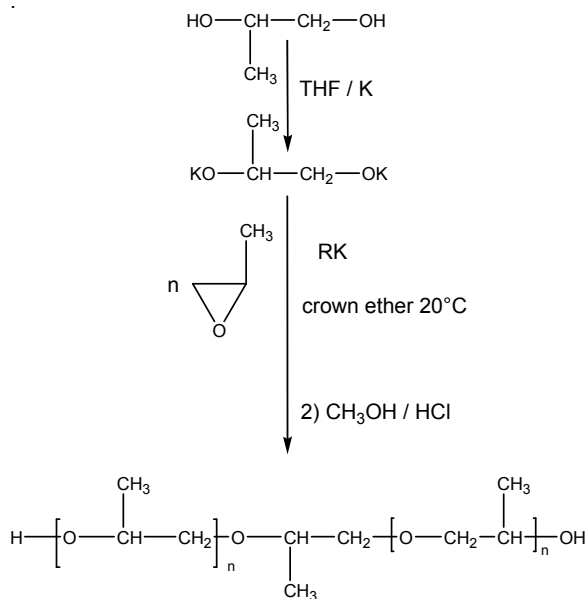


**Sample Name:** **$\alpha,\omega$ - dihydroxy terminated-polypropylene oxide or Poly propylene glycol****Sample #: P9217-PO2OH****Structure:****Composition:**

$M_n \times 10^3$	PDI
0.80	1.10

**Synthesis Procedure:**

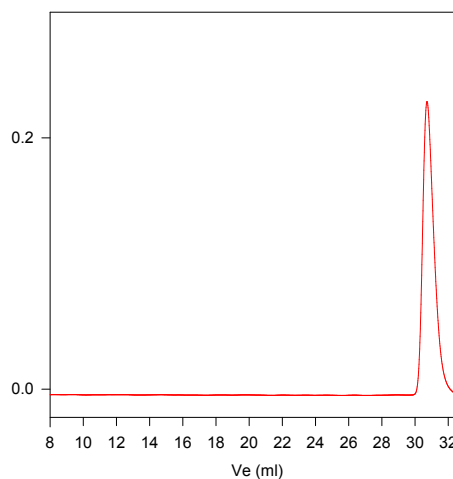
Polypropylene oxide is synthesized by anionic polymerization of propylene oxide as illustrated in the reaction scheme below

**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  $-10^\circ\text{C}$ .

**SEC of Homopolymer:****P9217-PP2OH**

Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene glycol)  
 $M_n=800$ ,  $M_w=880$ ,  $PI=1.10$