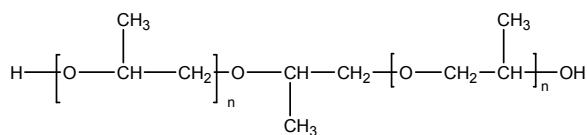
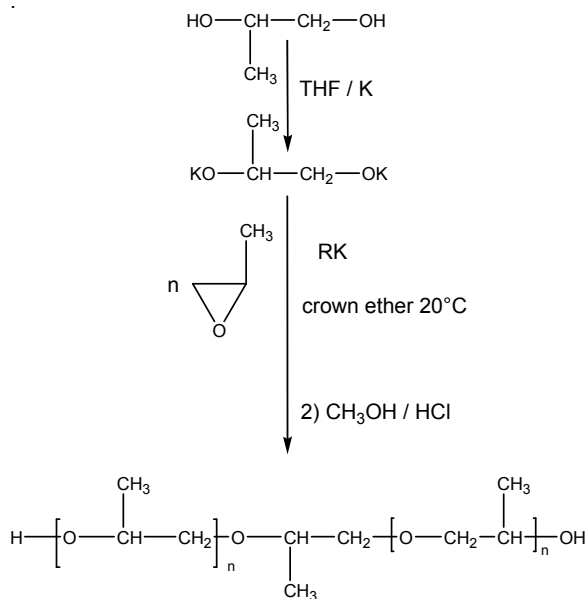


Sample Name: **α,ω - dihydroxy terminated-polypropylene oxide or Poly propylene glycol****Sample #: P9846D-PO2OH****Structure:****Composition:**

$M_n \times 10^3$	PDI
1.2	1.09

Synthesis Procedure:

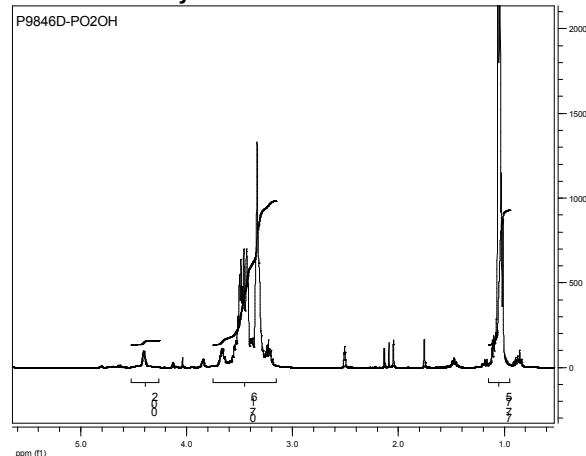
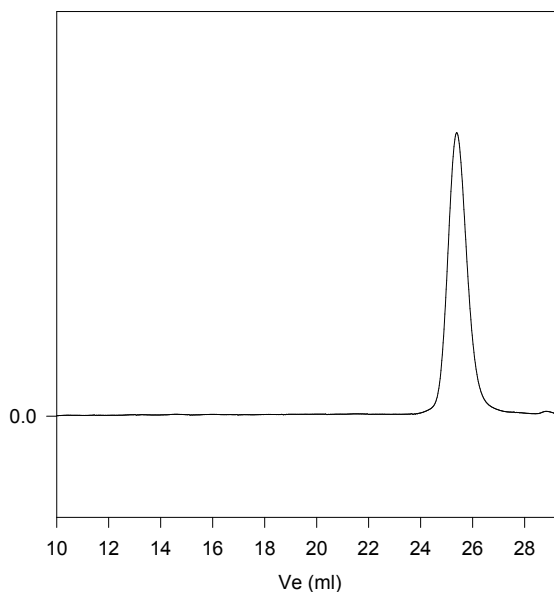
Polypropylene oxide is synthesized by anionic polymerization of propylene oxide as illustrated in the reaction scheme below

**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 recovered after keeping the solution at -10°C .

HNMR of the Polymer:**SEC of Homopolymer:****P9846D-PO2OH**

Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene oxide)

$M_n = 1200$, $M_w = 1300$, $PI = 1.09$