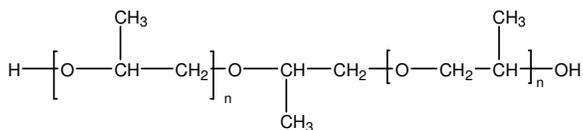


Sample Name:

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

Sample #: P18475-PO2OH

Structure:

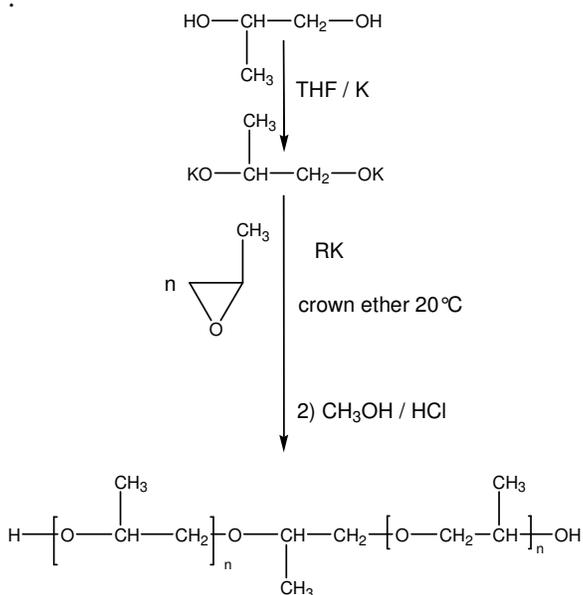


Composition:

$M_n \times 10^3$	PDI
1.2	1.10

Synthesis Procedure:

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



Characterization:

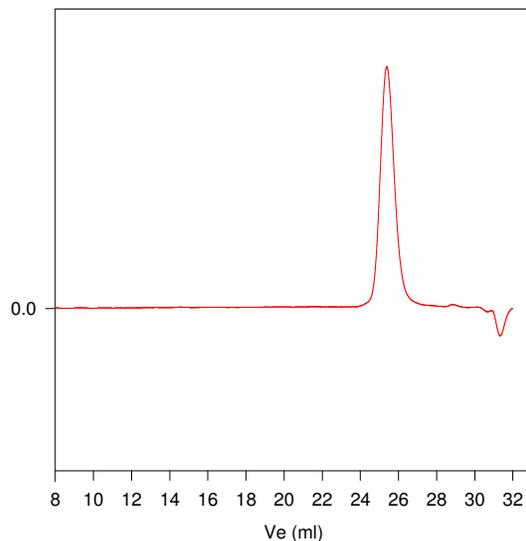
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

The reaction mixture was filtered to remove precipitated KCl after which the solvent was removed under reduced pressure. Then polymer was redissolved in iso-octane, and recovered after keeping the solution at -10°C .

SEC elugram of the polymer:

P18475-PO2OH



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene glycol)
 $M_n = 1,200$, $M_w = 1,350$, $PI = 1.10$