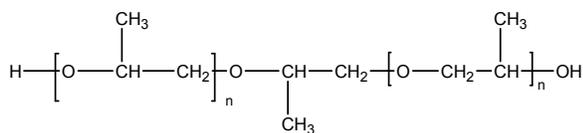


Sample Name:

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

Sample #: P9217-PO2OH

Structure:

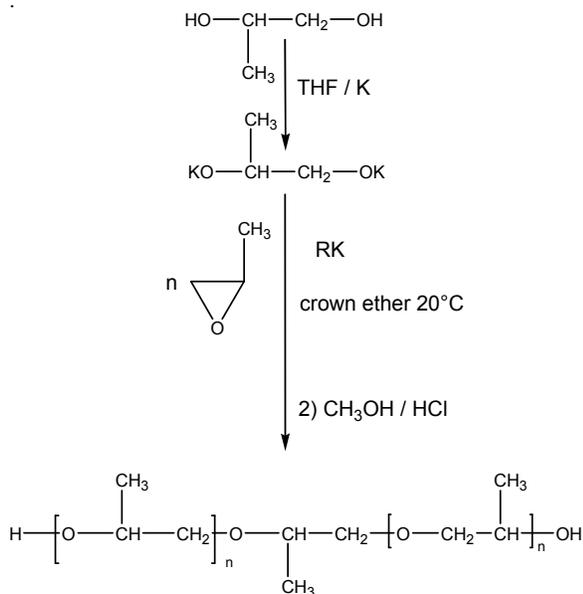


Composition:

Mn x 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:

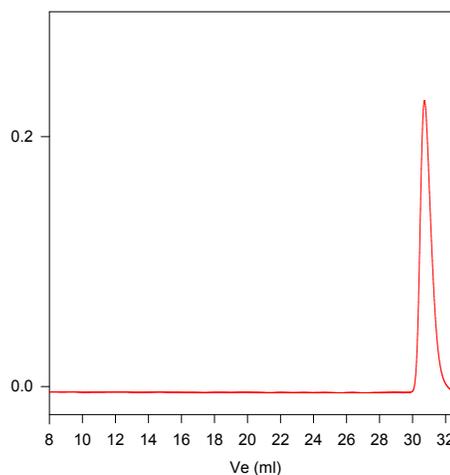
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

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 oC.

SEC of Homopolymer:

P9217-PP2OH



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