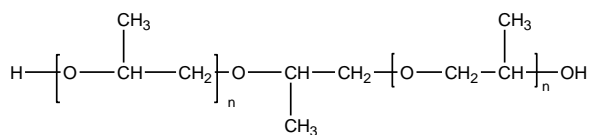


Sample Name:

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

Sample #: **P9795-PO2OH**

Structure:

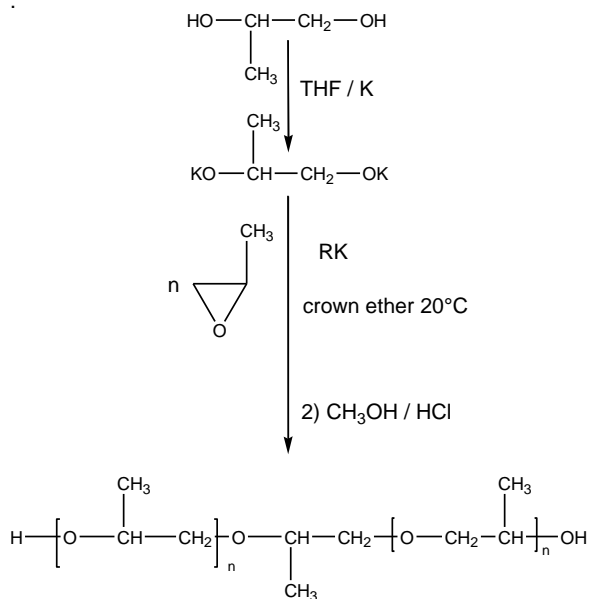


Composition:

$M_n \times 10^{-3}$	PDI
3.5	1.09

Synthesis Procedure:

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



Characterization:

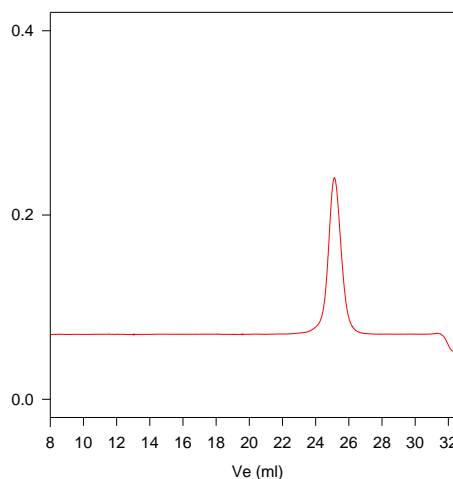
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

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 recover after keeping the solution at -10°C .

SEC of Homopolymer:

P9795-PP2OH



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene glycol)
 $M_n=3500$, $M_w=3800$, $PI=1.09$

