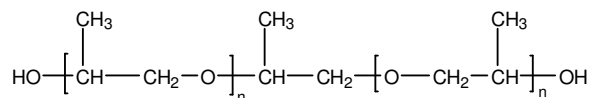


Sample Name:
 α,ω -dihydroxy terminated-polypropylene glycol or polypropylene oxide

Sample #: P3490-PO

Structure:

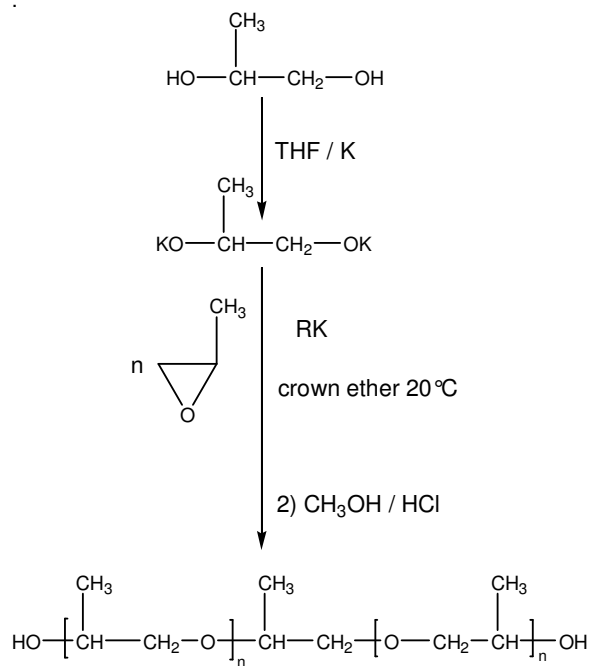


Composition:

$M_n \times 10^3$	PDI
2.6	1.05

Synthesis Procedure:

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



Characterization:

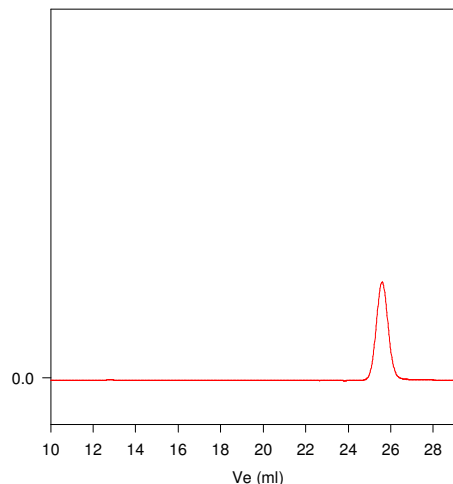
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

The reaction mixture is filtered to remove the precipitated KCl after which the solvent is removed under reduced pressure. The polymer is then redissolved in isooctane, which causes the crown ether precipitate for filtration within 24 hours.

SEC of Homopolymer:

P3490-PO2OH



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene oxide)

$M_n = 2600$, $M_w = 2800$, $PI = 1.05$

