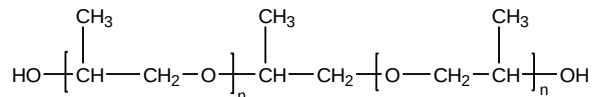


Sample Name:
Polypropylene oxide

Sample #: **P2835-PO**

Structure:

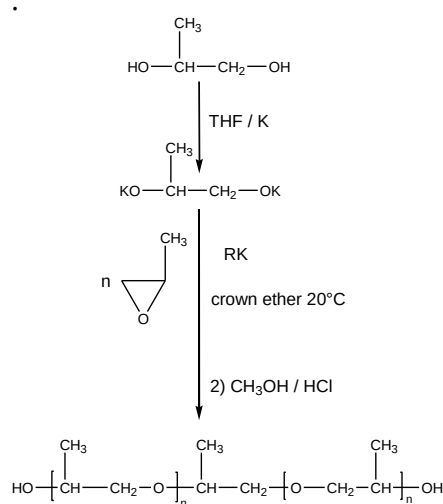


Composition:

$M_n \times 10^3$	PDI
2.2	1.4

Synthesis Procedure:

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



Characterization:

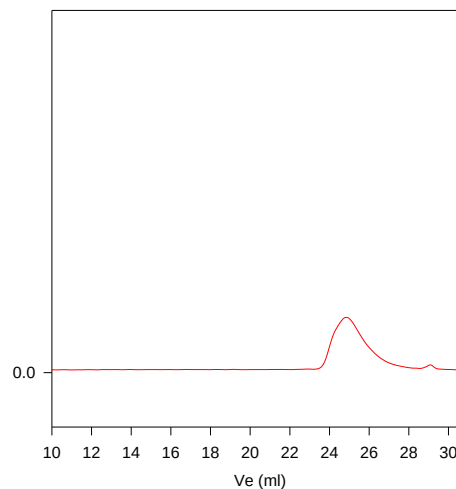
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

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 iso-octane, which causes the crown ether precipitate for filtration within 24 hours.

SEC of Homopolymer:

P2835-PO (Poly propylene glycol)



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene oxide)

$M_n = 2200$, $M_w = 3100$, $PI = 1.4$