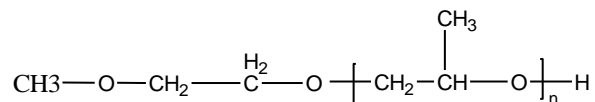
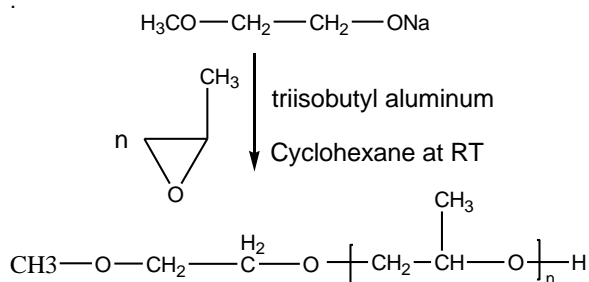


Sample Name: **α -methyl ether-terminated-poly propylene oxide or Poly propylene glycol methyl ether****SEC of Homopolymer: P9039-POOH3****Sample #: P9039-POOH3****Structure:****Composition:**

$M_n \times 10^3$	PDI
4.2	1.4

Synthesis Procedure:

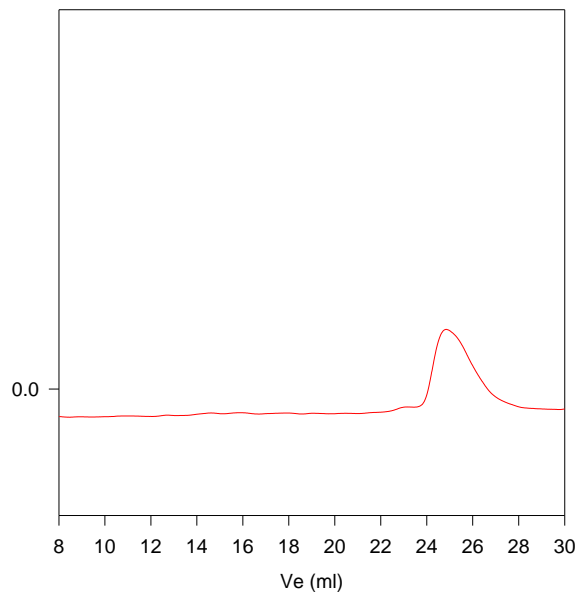
Polypropylene oxide is synthesized by anionic polymerization of propylene oxide as illustrated in the reaction scheme:

**Characterization:**

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

Purification:

Polymer purified by passing through Al_2O_3 packed column to remove the catalytic impurities.



Size Exclusion Chromatography of Poly(propylene glycol)methyl ether:

$M_n = 4200$, $M_w = 5900$, $PI = 1.4$

HNMR of the product