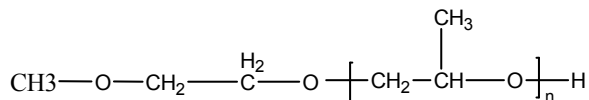


Sample Name:

**α -methyl ether-terminated-poly propylene oxide or
Poly propylene glycol methyl ether**

Sample #: **P10216-POOCH3**

Structure:

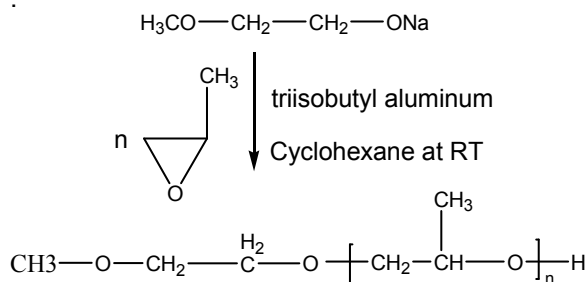


Composition:

$M_n \times 10^3$	PDI
4.2	1.18

Synthesis Procedure:

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



Characterization:

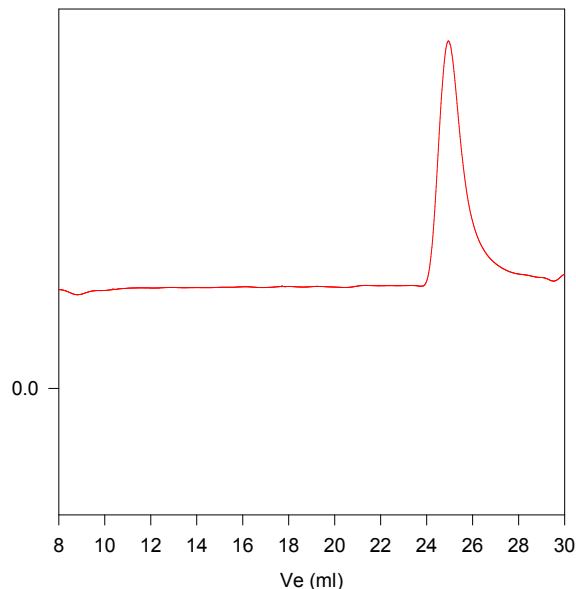
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

Polymer purified by passing through Al₂O₃ packed column to remove the catalytic impurities.

SEC of Homopolymer:

P10216-POOCH3



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

M_n = 4200, M_w = 5000, PI = 1.18

¹H NMR of the product

