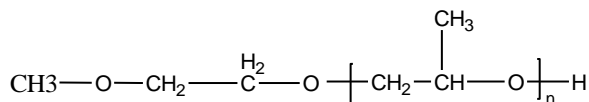


Sample Name:

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

Sample #: P9038-POOH3

Structure:

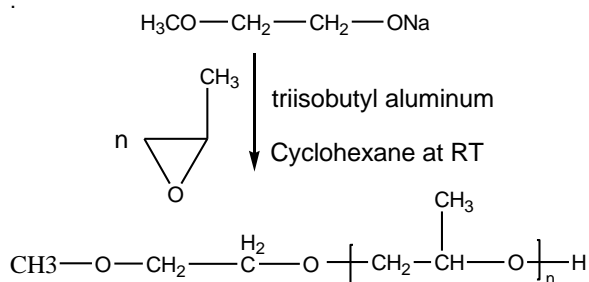


Composition:

| $M_n \times 10^3$ | PDI |
|-------------------|------|
| 5.5 | 1.35 |

Synthesis Procedure:

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



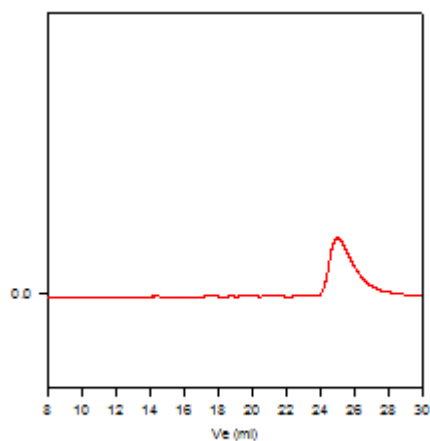
Characterization:

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.

SEC of Homopolymer: P9038-POOH3



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

$M_n = 5500$, $M_w = 7500$, $PI = 1.35$

HNMR of the product

