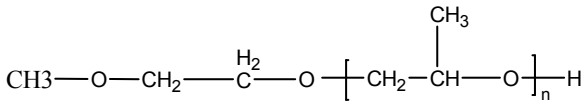
Sample Name:

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

Sample #: **P10347-POOCH3**

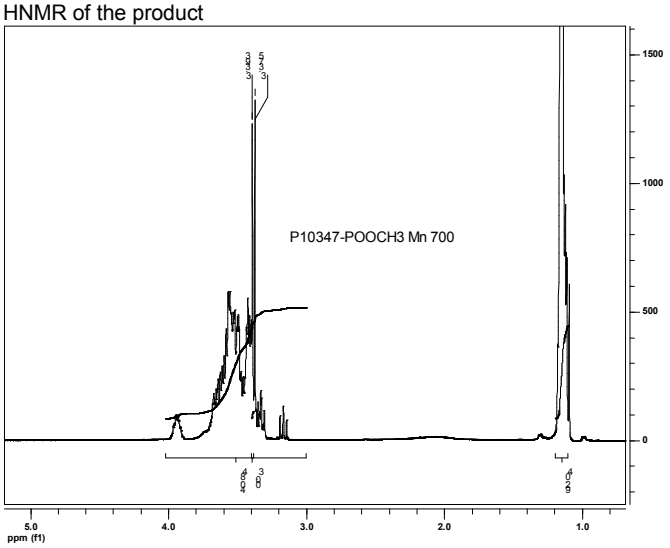
Structure:



Composition:

Mn x 10^3	PDI
0.7	1.18

HNMR of the product



Synthesis Procedure:

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

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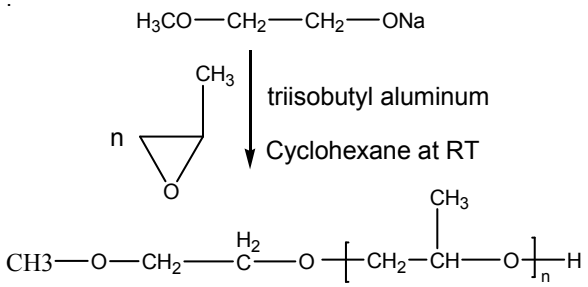


Characterization:

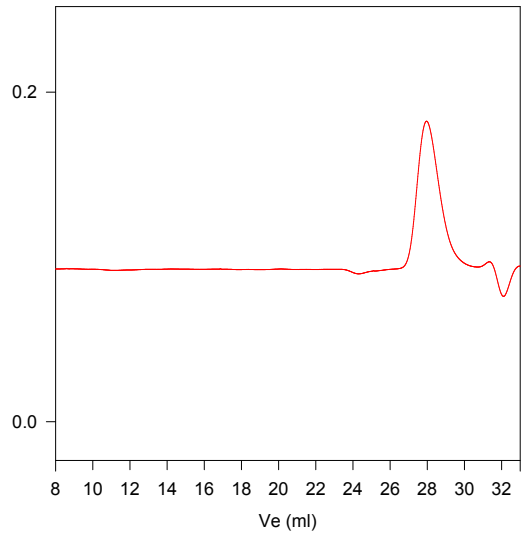
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

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

SEC of Homopolymer:

P10347-POOCH3



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

M_n =700, PI=1.18