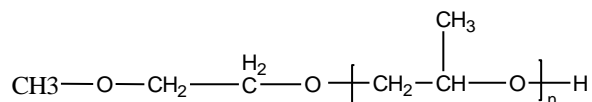


Sample Name: α -methyl ether-terminated, polypropylene oxide
Or Poly propylene glycol methyl ether

Sample #: P40992-POOCH3

Structure:

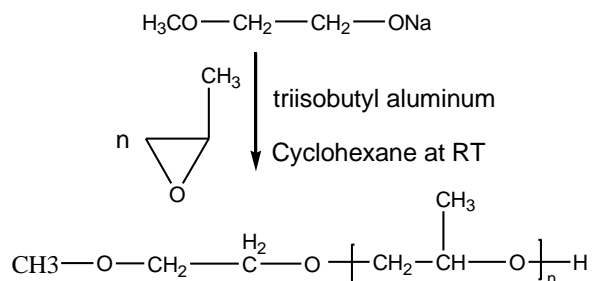


Composition:

Mn x 10 ³	PDI
1.8	1.08

Synthesis Procedure:

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



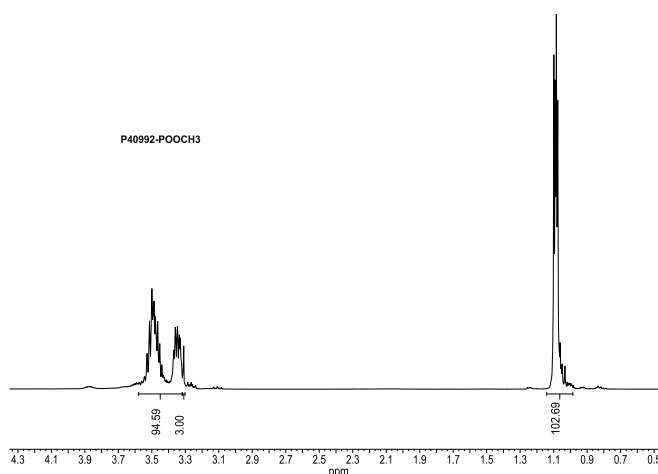
Characterization:

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

Purification:

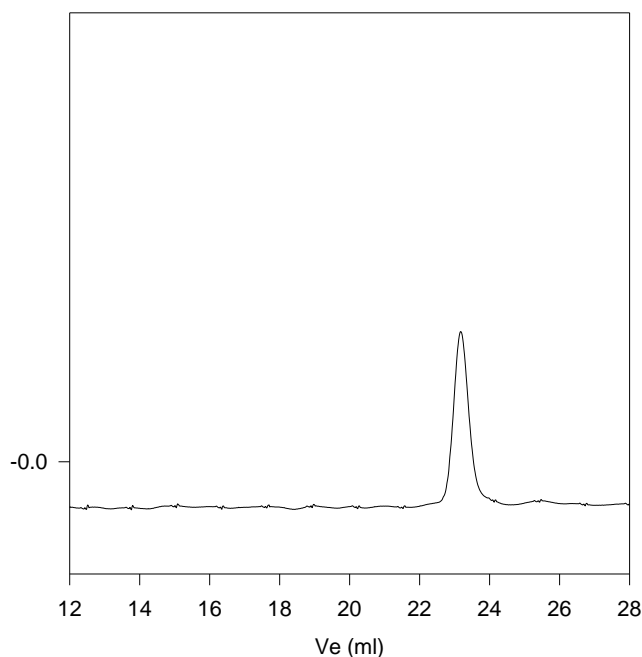
Polymer purified by passing through Al₂O₃ packed column to remove the catalytic impurities.

¹H NMR spectrum of the product:



SEC profile of Homopolymer:

P40992-POOCH3



Size exclusion chromatograph of polymer:

M_n=1,800, M_w=2,000, PI=1.08