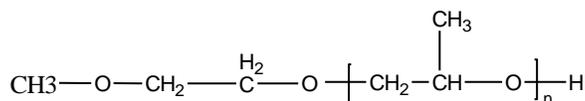


**Sample Name:**  $\alpha$ -methyl ether-terminated, polypropylene oxide  
Or Poly propylene glycol methyl ether

**Sample #:** P40992-POOCH3

**Structure:**

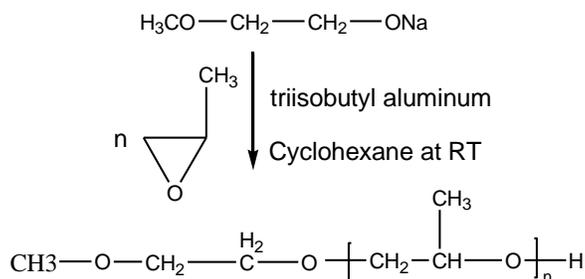


**Composition:**

Mn x 10 <sup>3</sup>	PDI
1.8	1.08

**Synthesis Procedure:**

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



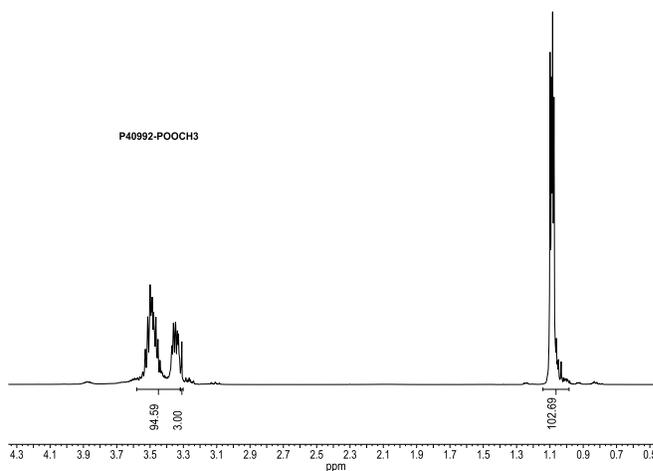
**Characterization:**

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

**Purification:**

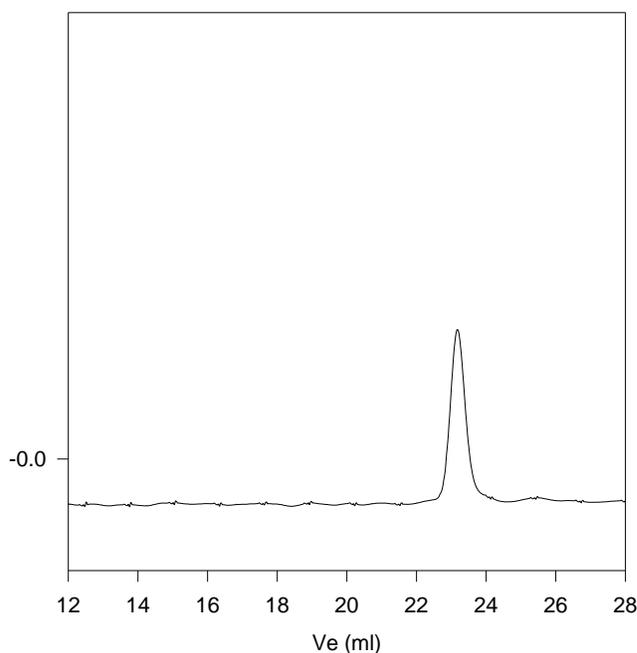
Polymer purified by passing through Al<sub>2</sub>O<sub>3</sub> packed column to remove the catalytic impurities.

**<sup>1</sup>H NMR spectrum of the product:**



**SEC profile of Homopolymer:**

**P40992-POOCH3**



Size exclusion chromatograph of polymer:

M<sub>n</sub>=1,800, M<sub>w</sub>=2,000, PI=1.08