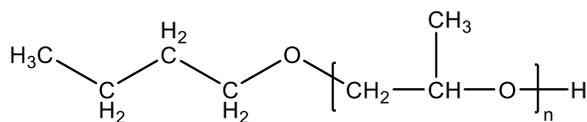


**Sample Name:  $\alpha$ -Butyl ether-terminated-polypropylene oxide or Poly propylene glycol Butyl ether**

Sample #: **P42434A-PO-OBu**

**Structure:**

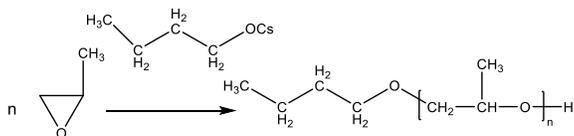


**Composition:**

Mn x 10 <sup>3</sup>	PDI
4.8	1.20

**Synthesis Procedure:**

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



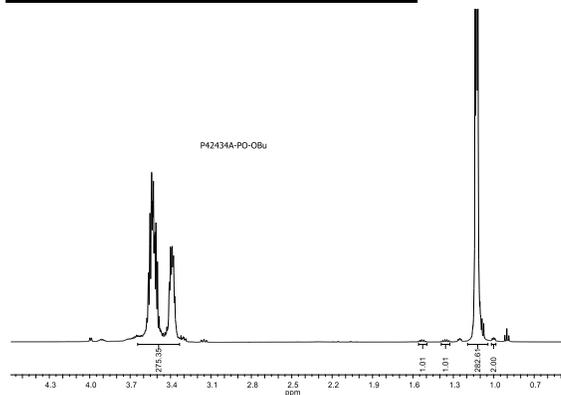
**Characterization:**

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

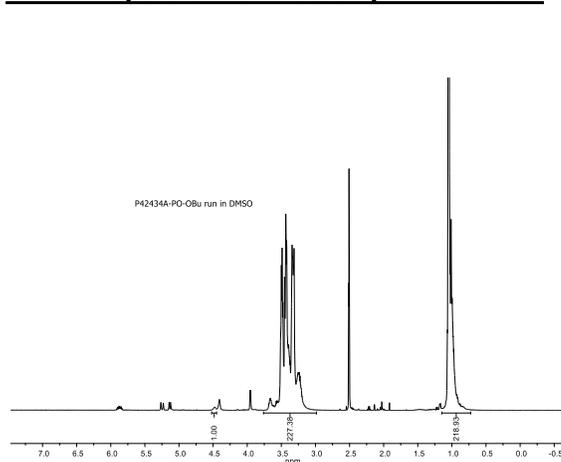
**Purification:**

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

**H NMR spectrum of the Sample:**



**H NMR spectrum of the Sample in DMSO:**



**SEC elugram of Homopolymer:**

