

Sample Name:

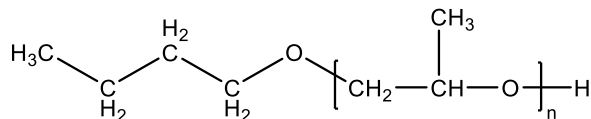
**$\alpha$ -Butyl ether-terminated-poly propylene oxide.**

**or**

**Poly propylene glycol Butyl ether.**

Sample #: P42430-PO-OBu

**Structure:**

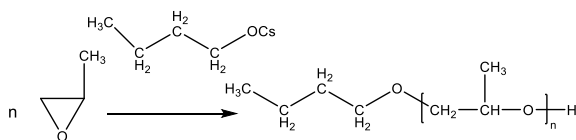


**Composition:**

Mn x 10 <sup>3</sup>	PDI
3.1	1.09

**Synthesis Procedure:**

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



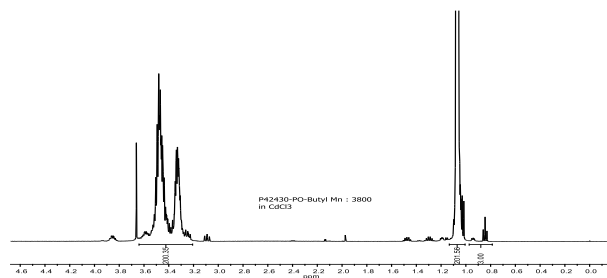
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography and <sup>1</sup>H-NMR data analysis.

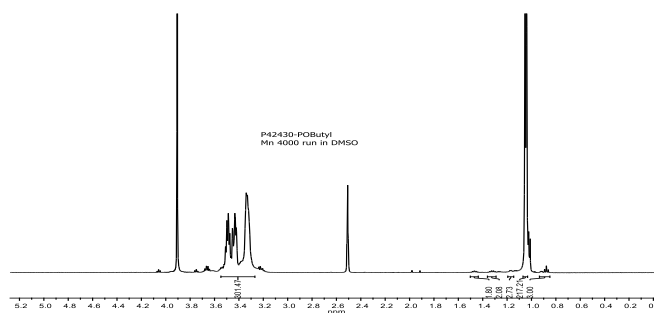
**Purification:**

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 Sample in CDCl<sub>3</sub> (500 MHz):**



**<sup>1</sup>H-NMR spectrum of the Sample in DMSO:**



**SEC elugram of Homopolymer:**

