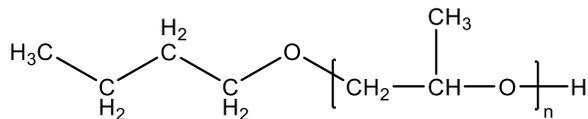


Sample Name:

α -Butyl ether-terminated-poly propylene oxide.
or
Poly propylene glycol Butyl ether.

Sample #: P42430-PO-OBu

Structure:

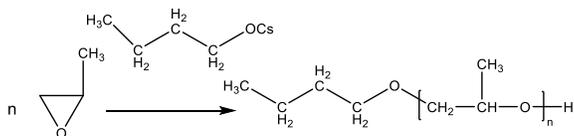


Composition:

Mn x 10 ³	PDI
3.1	1.09

Synthesis Procedure:

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



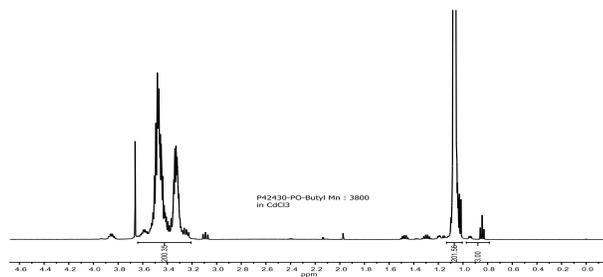
Characterization:

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

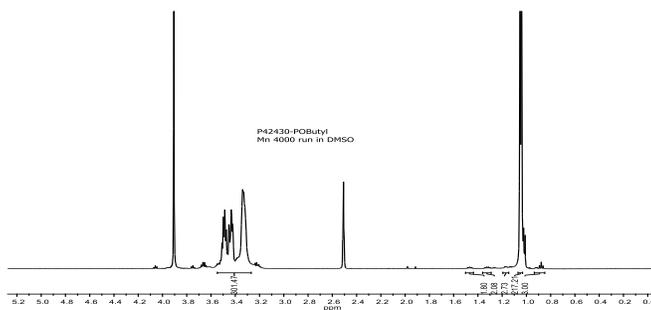
Purification:

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

¹H-NMR spectrum of the Sample in CDCl₃ (500 MHz):



¹H-NMR spectrum of the Sample in DMSO:



SEC elugram of Homopolymer:

