

Sample Name:

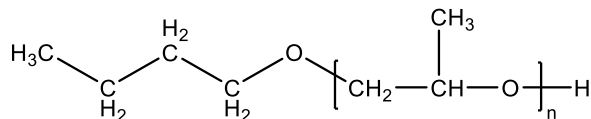
α -Butyl ether-terminated-poly propylene oxide.

or

Poly propylene glycol Butyl ether.

Sample #: P42456-PO-OBu

Structure:

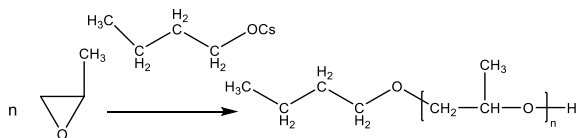


Composition:

Mn x 10 ³	PDI
3.3	1.09

Synthesis Procedure:

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



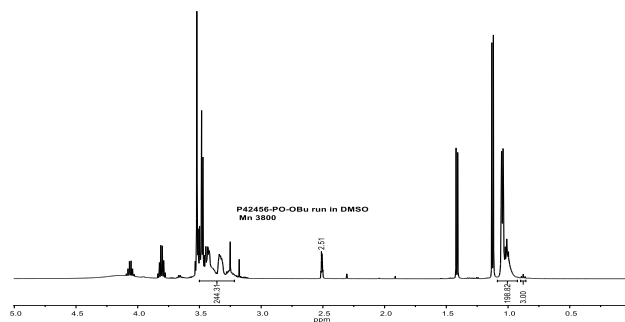
Characterization:

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

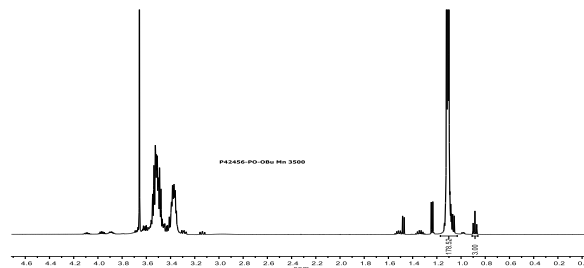
Purification:

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

¹H NMR (400 MHz, CDCl₃) spectrum of sample:



¹H NMR (400 MHz, DMSO) spectrum of sample:



SEC elugram of Homopolymer:

