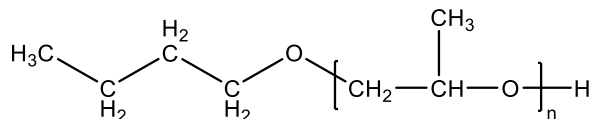


Sample Name:

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

Sample #: **P42434P-PO-OBu**

Structure:

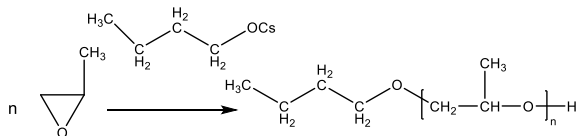


Composition:

Mn x 10 ³	PDI
1.5	1.28

Synthesis Procedure:

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



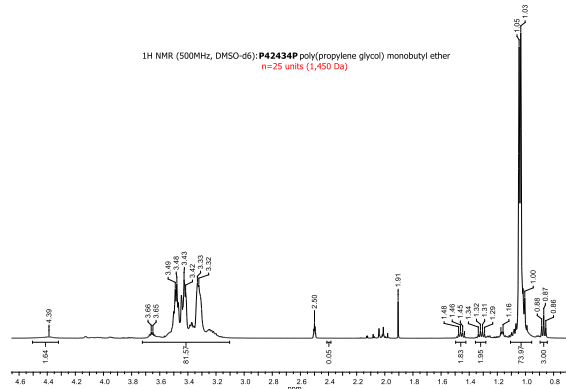
Characterization:

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

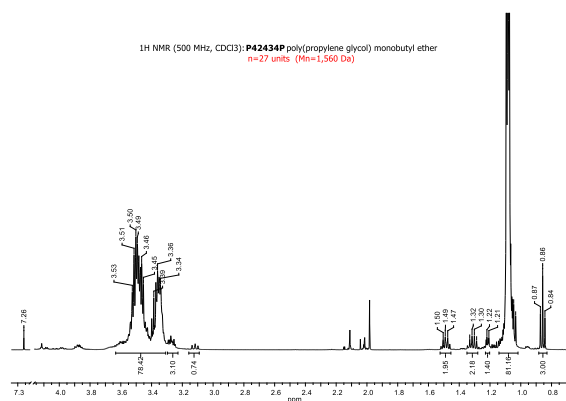
Purification:

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

H NMR spectrum of the Sample in DMSO:



H NMR spectrum of the Sample in CdCl₃:



SEC profile of Homopolymer:

