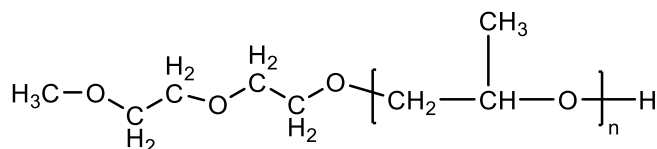


Sample Name:

**$\alpha$ -methyl ether-terminated-poly propylene oxide or Poly propylene glycol methyl ether**

Sample #: **P42434O-PO-OCH3**

**Structure:**

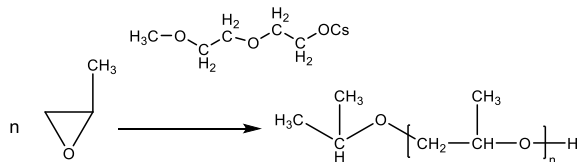


**Composition:**

$\text{Mn} \times 10^3$	PDI
24.0	1.55

**Synthesis Procedure:**

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



**Characterization:**

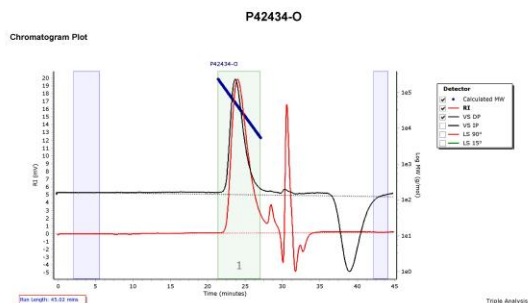
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

**Purification:**

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

**SEC of Homopolymer:**

Agilent GPC/SEC Software



Peak	M <sub>n</sub> (g/mol)	M <sub>w</sub> (g/mol)	M <sub>z</sub> (g/mol)	M <sub>w</sub> +1 (g/mol)	M <sub>w</sub> (g/mol)	PDI
Peak 1	41741	24158	37622	51050	64020	27496

Workspace Details  
Workspace name: Calibration 2019-07-23  
Location: C:\ProgramData\Agilent Technologies\GPC\Workspaces\Calibration 2019-07-23  
Comments: GPC Agilent2 at 10:21:30 AM on July-23-19

