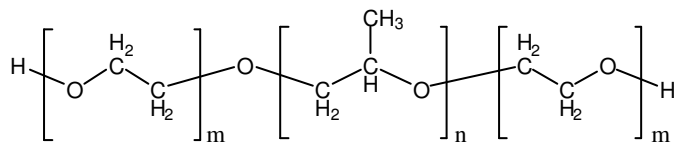


Sample Name: Poly(ethylene oxide *-b-* propylene oxide *-b-* ethylene oxide)

Sample # P18101-EOPOEO

Structure:



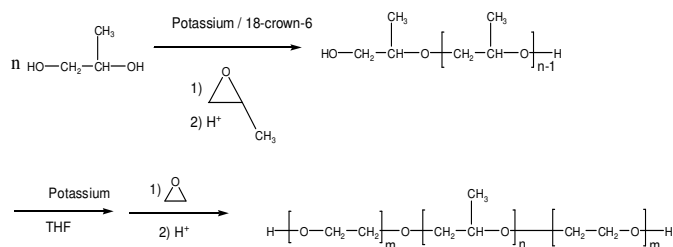
Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
0.5- <i>b</i> -2.0- <i>b</i> -0.5	1.19

Dp:	PEO(11)- <i>b</i> -PPO(35)- <i>b</i> -PEO(11)
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Synthesis procedure:

Poly(ethylene oxide *-b-* propylene oxide *-b-* ethylene oxide) triblock copolymer was prepared by living anionic polymerization of propylene oxide followed by addition of ethylene oxide monomer. The scheme of the reaction is shown below:



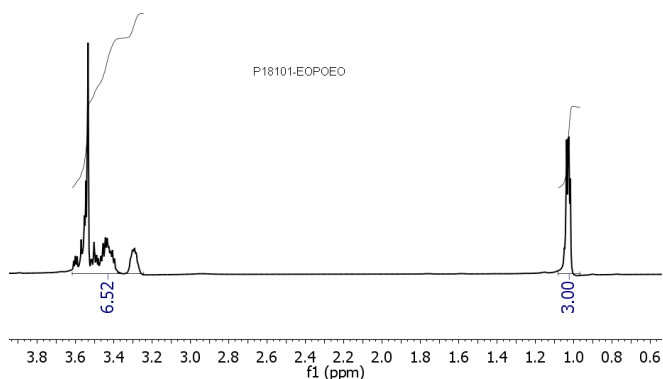
Characterization:

The molecular structure of the triblock copolymer was confirmed by ^1H NMR spectroscopy. The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with UV and refractive index detectors.

Solubility:

PEO-PPO-PEO polymer is soluble in chloroform, THF, and toluene.

^1H NMR spectrum of PEO-PPO-PEO in CDCl_3 :



SEC elugrams of PPO (middle block) and PEO-PPO-PEO triblock copolymer:

