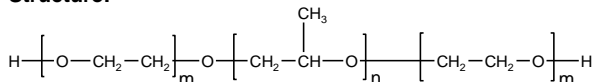
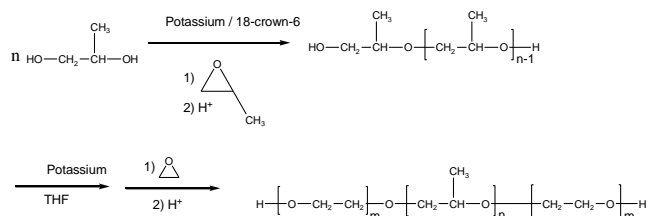


**Sample Name:****Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide)****Sample #:** P8729-EOPOEO**Structure:****Composition:**

$M_n \times 10^3$	PDI
0.2-b-2.5-b-0.2	1.10

**Synthesis Procedure:**

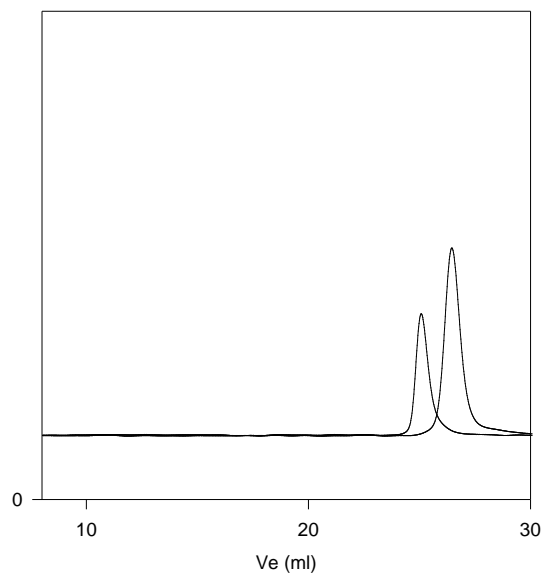
Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide) is prepared by living anionic polymerization with sequence addition of propylene oxide followed by ethylene oxide. The scheme of the reaction is illustrated below:

**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:**

Polymer is soluble in THF, CHCl<sub>3</sub>, Toluene.

**SEC of Sample:****P8729-EOPOEO**

Size exclusion chromatography of:

(ethylene oxide-propylene oxide) triblock copolymer:

— Poly(propylene oxide) center block:  $M_n=2500$ ,  $M_w=2700$ ,  $M_w/M_n=1.10$

— Block Copolymer EO(200)-b-PO(2500)-b-EO(200),  $M_w/M_n=1.10$

