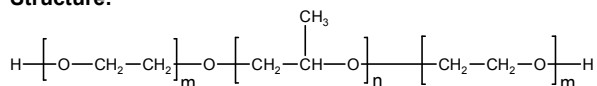


Poly(ethylene oxide-b- propylene oxide -b-ethylene oxide)

Structure:

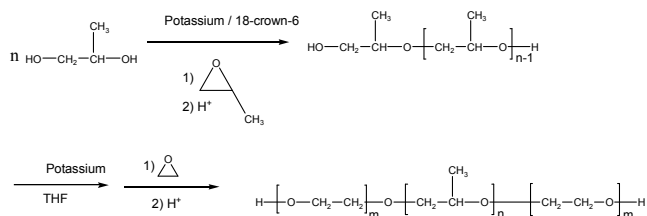


Composition:

Mn x 10 ³	PDI
5.6-b-3.2-b-5.6	1.12
Dp of each block: 127-b-55-127	

Synthesis Procedure:

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:

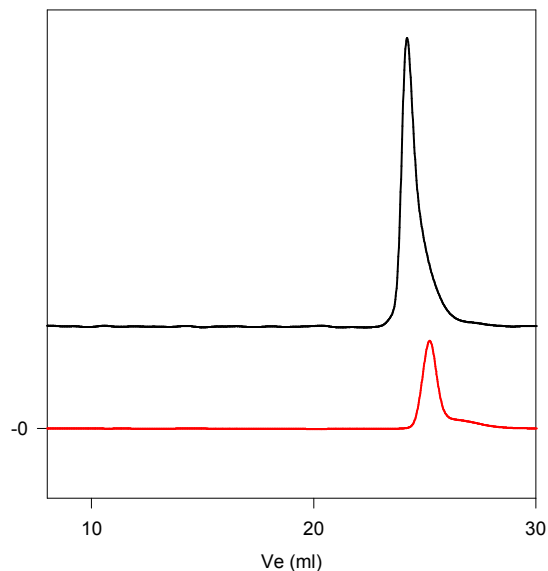


Characterization:

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, CHCl₃, Toluene.

P8748A-EOPOEO



Size exclusion chromatography of:

(ethylene oxide-propylene oxide-ethylene oxide) triblock copolymer:

— Poly(propylene oxide) center block: $M_n=3200$, $M_w=3500$, $M_w/M_n=1.09$

— Block Copolymer EO(5600)-b-PO(3200)-b-EO(5600), $M_w/M_n=1.12$

HNMR of the Polymer:

