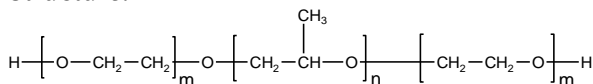


Sample Name:

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

Sample #: P9883-EOPOEO

Structure:

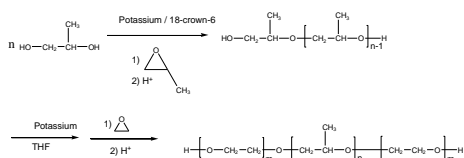


Composition:

$M_n \times 10^3$	PDI
0.3-b-1.8-b-0.3	1.16
Dp: 7-b-31-b-7	

Synthesis Procedure:

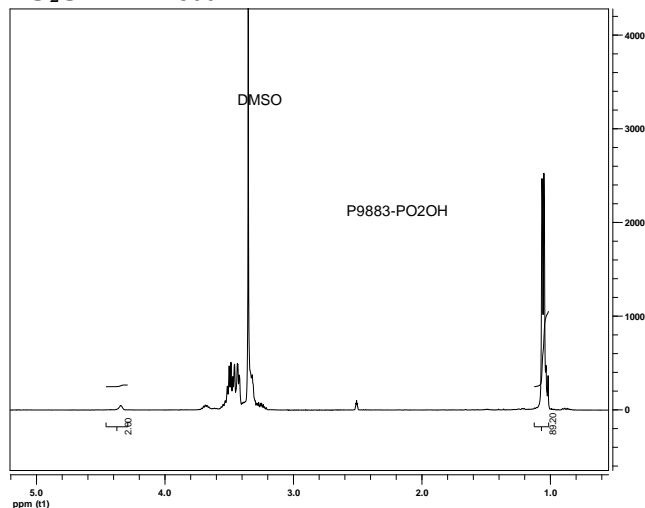
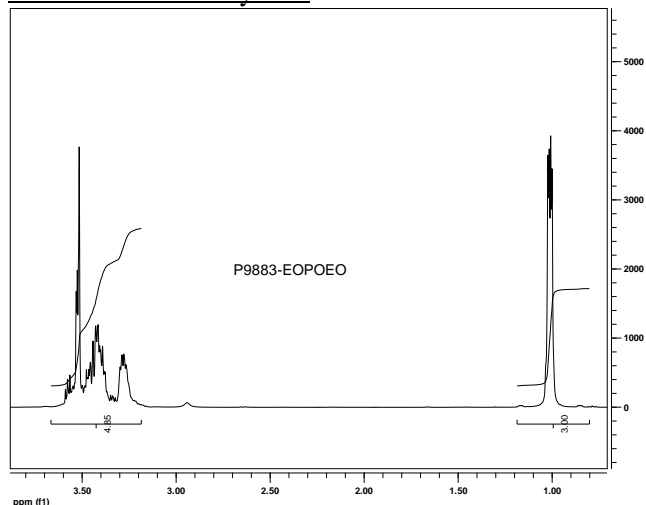
Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide) is prepared by living anionic polymerization with sequence addition of propylene oxide followed by ethylene oxide. The scheme of the reaction is illustrated below:

**Characterization:**

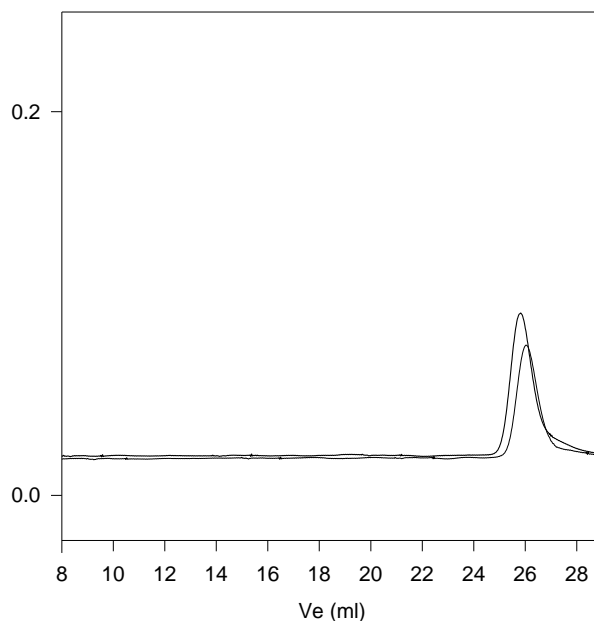
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

Polymer is soluble in THF, CHCl_3 , and toluene.

PO₂OH Mn 1800**1H NMR of the Polymer:****SEC of Sample:**

P9883-EOPOEO



Size Exclusion Chromatography of EO-b-PO-EO
EOPOEO $M_n = 300\text{-}b\text{-}1800\text{-}300$, $M_w/M_n=1.16$