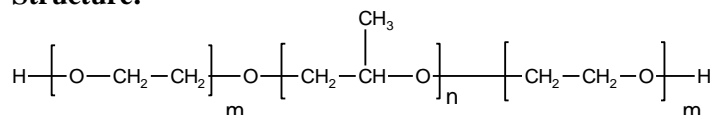


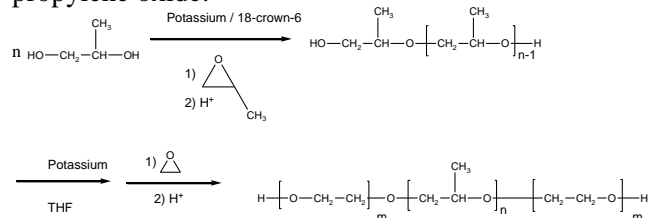
**Poly(ethylene oxide-b- propylene oxide -b-ethylene oxide)  $\alpha,\omega$ -dihydroxy terminal ends**

**Structure:**



Mn x 10 <sup>3</sup>	PDI
1.7-b-9.2-b-1.7	1.09
Dp: 38-b-158-b-38	

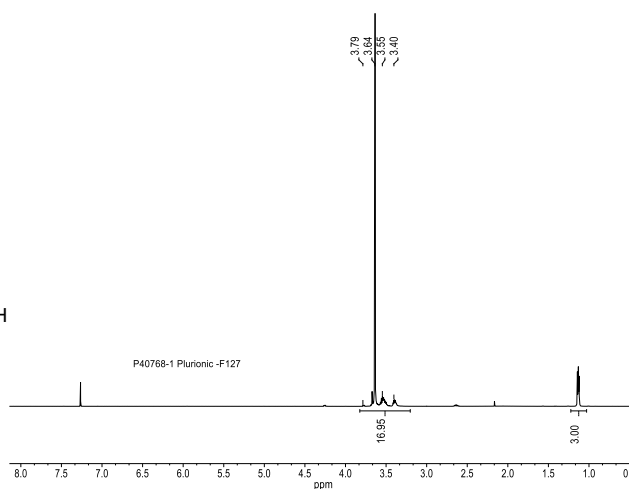
Poly(ethylene oxide-*b*- propylene oxide -*b*- ethylene oxide) is prepared by living anionic polymerization with sequence addition of monomer EO and propylene oxide.



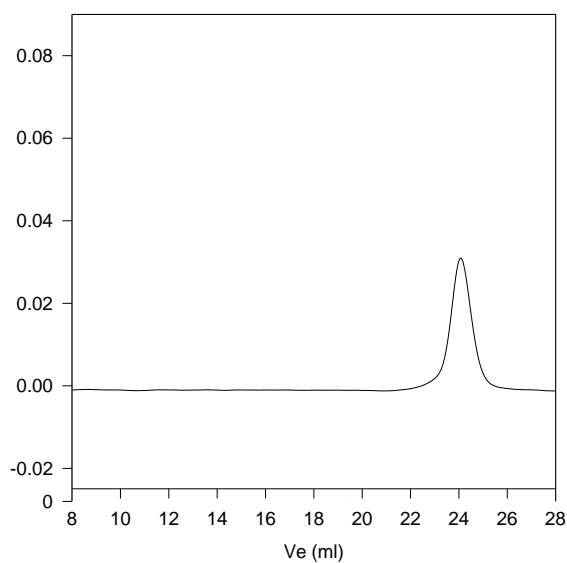
The polymer was characterized by SEC and  $^1\text{H}$ NMR.

Polymer is soluble in THF,  $\text{CHCl}_3$ , and toluene.

1H NMR spectrum of P19406-PO2OH in DMSO-d6. The x-axis represents chemical shift in ppm, ranging from 4.8 to 0.4. The spectrum shows several peaks: a small peak at ~4.4 ppm, a broad multiplet between 3.6 and 3.8 ppm, a sharp singlet at ~3.3 ppm, a sharp singlet at ~2.5 ppm, and a sharp singlet at ~1.0 ppm. Integration values are shown below the baseline: 2.00 for the peak at ~4.4 ppm, and 229.74 for the multiplet between 3.6 and 3.8 ppm. The label "P19406-PO2OH" is centered above the peak at ~3.3 ppm.



## P40768-Pluronic-F127



Size exclusion chromatograph of polymer  
 $M_n=12,600$ ,  $PI=1.09$