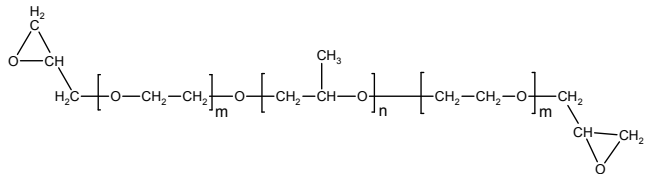


Sample Name:

α - ω Diepoxy terminated Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide) bearing unsymmetrical terminal PEO block

Sample #: P10571-EOPOEOdiepoxy

Structure:



Composition:

Mn x 10 ³	PDI
0.30-b-1.9-b-0.6	1.09
Dp: 7-b-32-b-13	

Synthesis Procedure:

Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide) is prepared by living anionic polymerization with sequence addition of monomer EO and propylene oxide. OH terminal groups were transform to epoxy group.

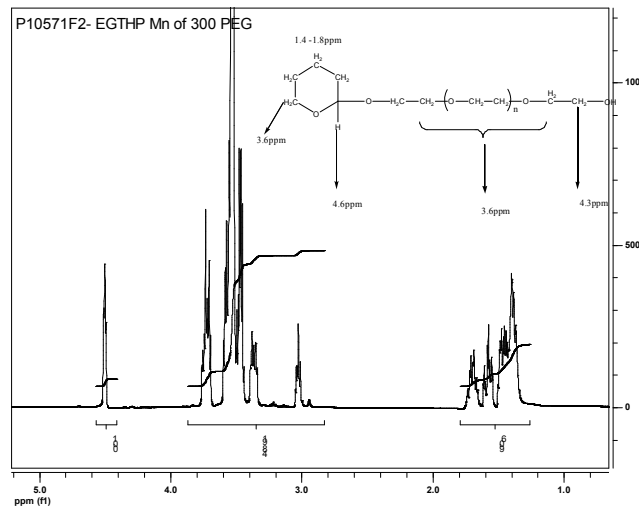
Characterization:

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.

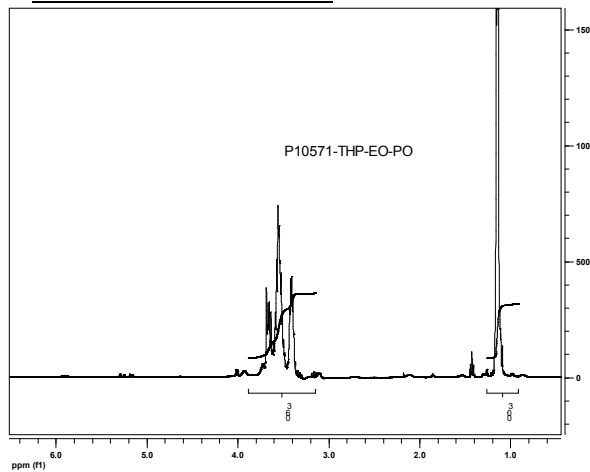
Solubility:

Polymer is soluble in THF, CHCl₃, and toluene.

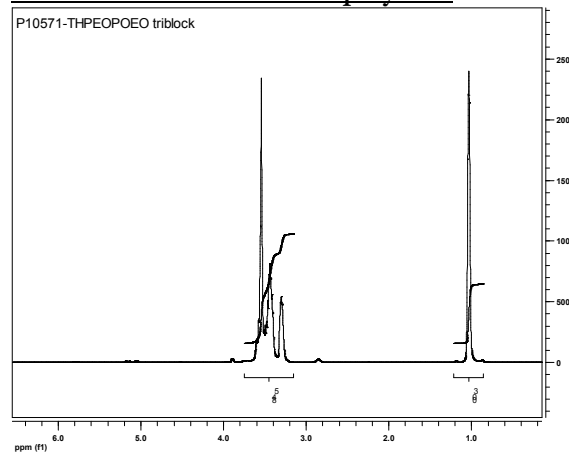
First Block PEG



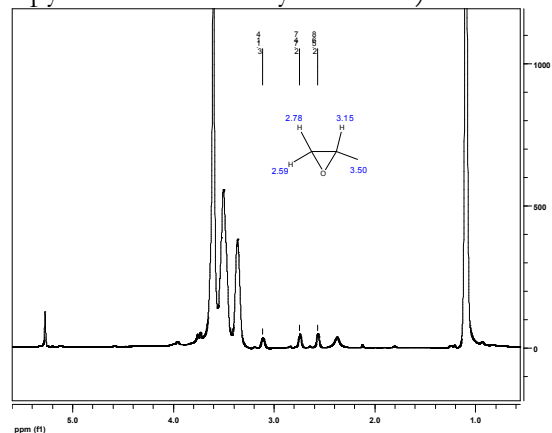
THP-EG-b-PO diblock



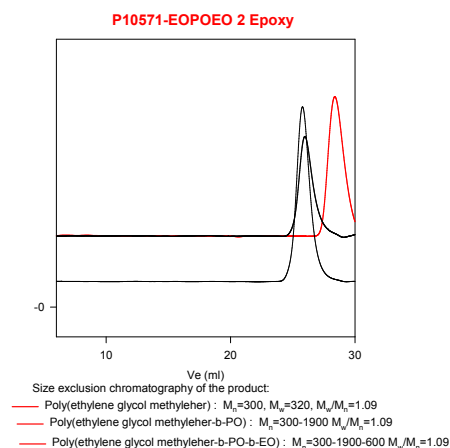
THPEOPOEO triblock copolymer:



α - ω Diepoxy terminated Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide)



SEC of Sample:



Size exclusion chromatography of the product:
Poly(ethylene glycol methylether) : $M_n=300$, $M_w=320$, $M_w/M_n=1.09$
Poly(ethylene glycol methylether-b-PO) : $M_n=300-1900$, $M_w/M_n=1.09$
Poly(ethylene glycol methylether-b-PO-b-EO) : $M_n=300-1900-600$, $M_w/M_n=1.09$