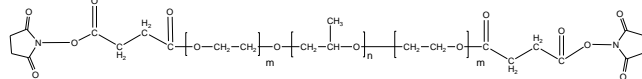


Sample Name: α,ω -Disuccinimidyl Succinate
**Terminated Poly(ethylene oxide-b- propylene oxide -
b- ethylene oxide)**

Sample #: P19108A-EOPOEO-2NHS

Structure:

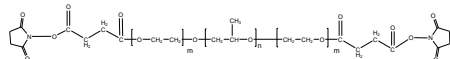
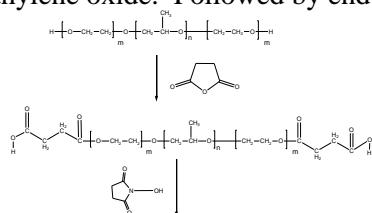


Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 1.6-b-3.2-b-1.6 | 1.09 |
| Dp : 37-b-56-b-37 | |

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. Followed by end group modification.



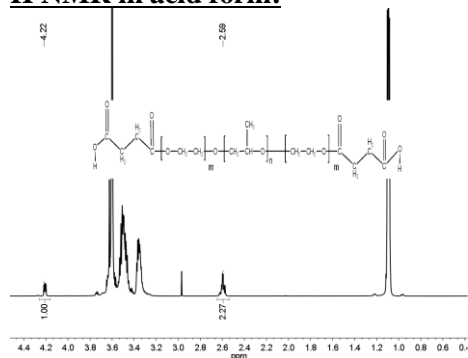
Characterization:

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.

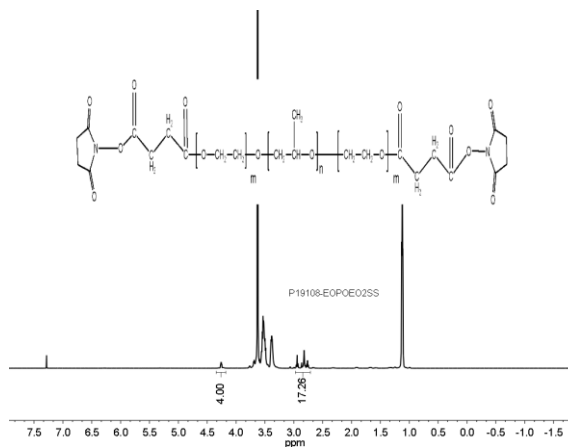
Solubility:

Polymer is soluble in THF, CHCl₃, and toluene.

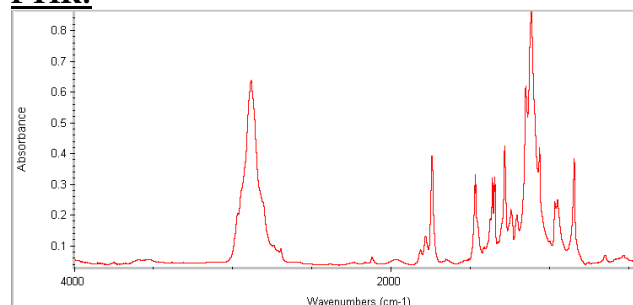
H NMR in acid form:



1H NMR of the Polymer:

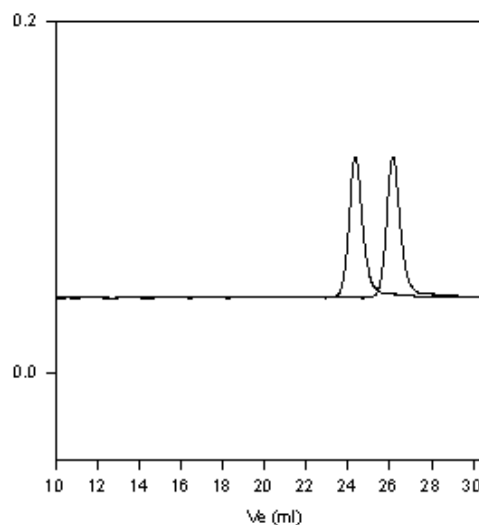


FTIR:



SEC of Sample of EOPOEO triblock:

P19108- EOPOEO



Size Exclusion Chromatography of Poly(propylene glycol):

M_n = 3200, M_w = 3300, PDI = 1.05

Block Copolymer: EO-b-PO-EO Mn 1600-b-3200-b-1600 Mw/Mn 1.09