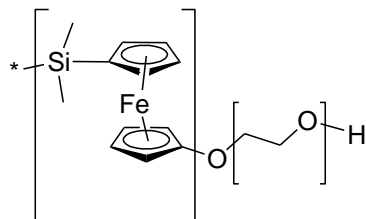


Sample Name:

Poly(ferrocenyl dimethylsilane)-b-poly(ethylene oxide)

Sample #: **P42197PP-FESEO**

Structure:



Composition:

Mn $\times 10^3$ FES-b-EO	Mw/Mn (PDI)
4.0-5.5	1.13

Synthetic Procedure:

Poly(ferrocenyldimethylsilane-b-ethylene oxide) is prepared by anionic living polymerization by successive addition of ferrocenyldimethylsilane and EO.

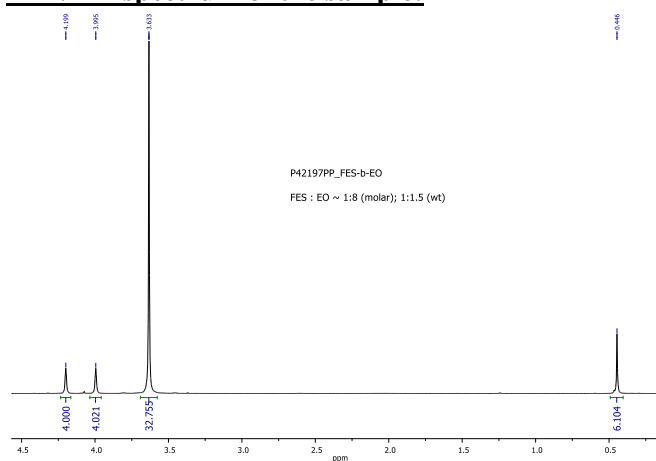
Characterization:

The product was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from $^1\text{H-NMR}$ spectroscopy.

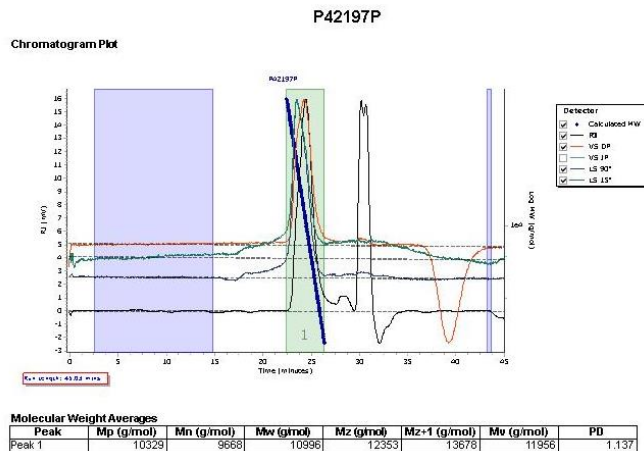
Solubility:

Polymer is soluble in THF, CHCl_3 , toluene and precipitates out from ether and hexanes.

^1H NMR spectrum of the sample:



SEC profile of the block copolymer:



Molecular Weight Averages						
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)
Peak 1	10329	9668	10996	12353	13678	11956

PDI