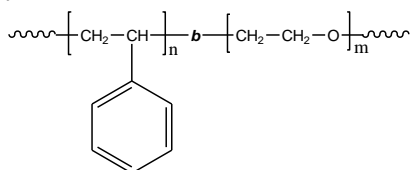


Sample Name: Poly (styrene-b-ethylene oxide)

Sample #: P41324-SEO

Structure:



Composition:

Mn x 10 ³	PDI
1.3-b-5.2	1.09

Synthesis Procedure:

Poly(styrene-b-ethylene oxide) diblock copolymer is prepared by living anionic polymerization.

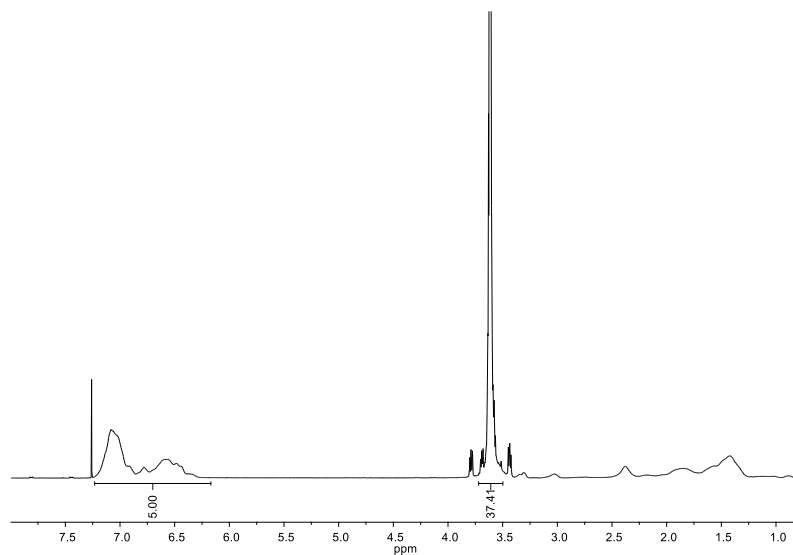
Characterization:

The polymer is characterized by size exclusion chromatography (SEC) and ¹H-NMR.

Solubility:

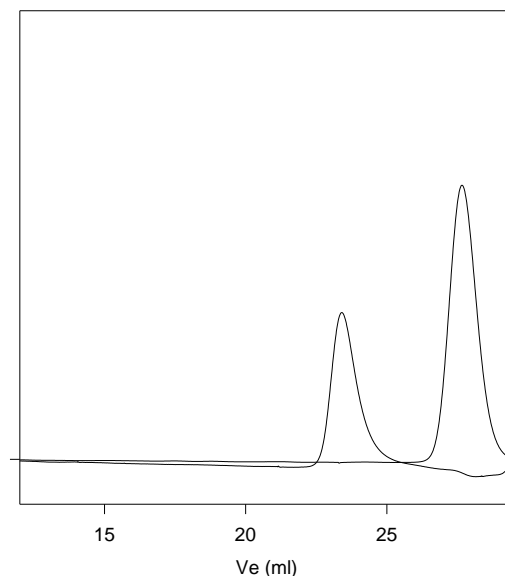
The polymer is soluble in THF, CHCl₃, benzene, toluene, dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

¹H NMR spectrum of the sample:



SEC elugram of the block polymer:

P41324-SEO



Size exclusion chromatography of poly(styrene-b-ethylene oxide)

— Poly(styrene), M_n=1300, M_w=1500, PI=1.12
— Block Copolymer PSt(1300)-b-PEO(5,200), PI=1.09
The composition determined from HNMR.