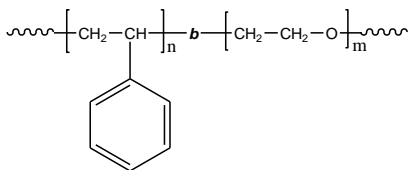


Sample Name: Poly (styrene-b-ethylene oxide)

Sample #: P19241-SEO

Structure:



Composition:

Mn x 10 ³	PDI
5.2-b-3.0	1.08

Synthesis procedure:

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

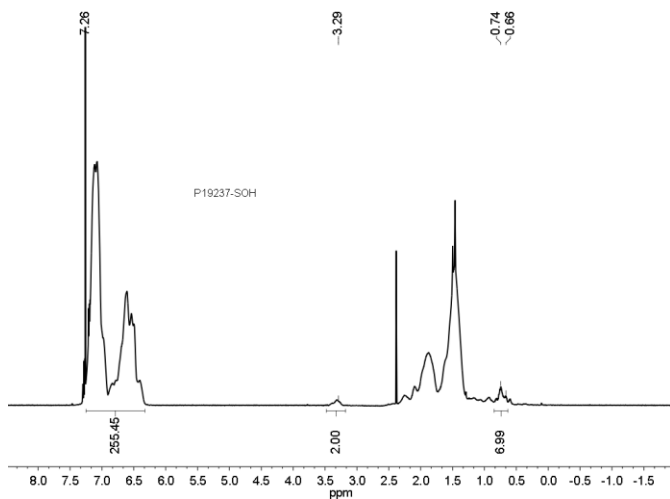
Characterization:

By size exclusion chromatography (SEC) and by ¹H-NMR.

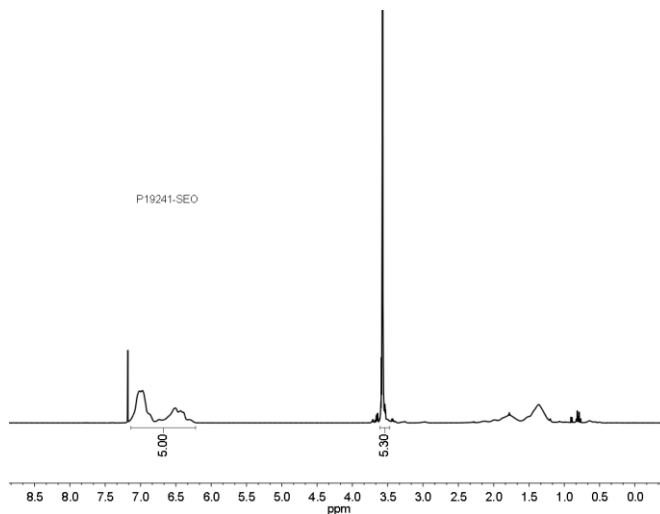
Solubility:

The polymer is soluble in THF (at 35 °C), 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 of PS-OH:

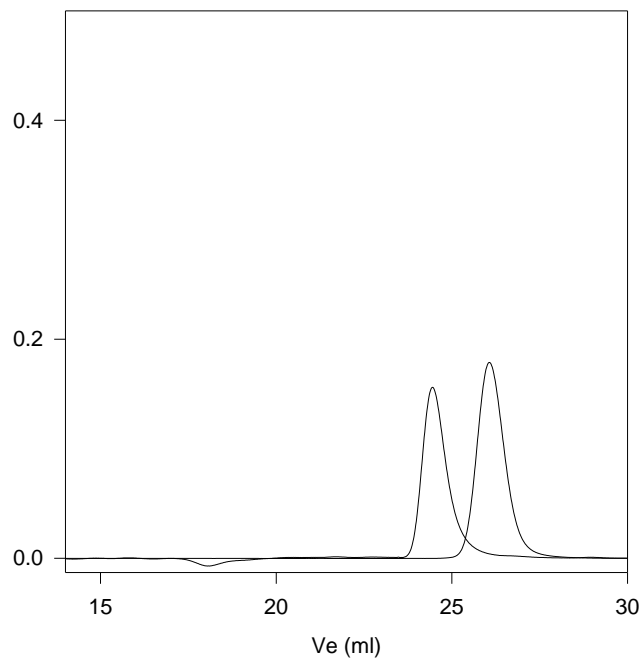


¹H NMR of PS-PEO (500 MHz, CDCl₃):



SEC elugrams of PS and PS-PEO:

P19241-SEO



Size Exclusion Chromatography:

— Polystyrene, M_n=5,200, M_w=5,500, PI=1.05

— Block Copolymer Polystyrene-b-Poly(ethylene oxide)

Mw: PS(5,200)-b-PEO(3,000), PI=1.08