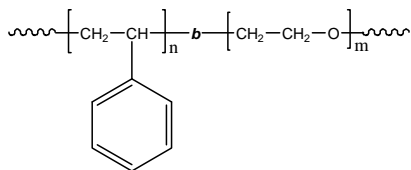


Sample Name: Poly(styrene-b-ethylene oxide)

Sample #: P18929D-SEO

Structure:



Composition:

Mn x 10 ³	PDI
3.5-b-5.7	1.09

Synthesis Procedure:

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

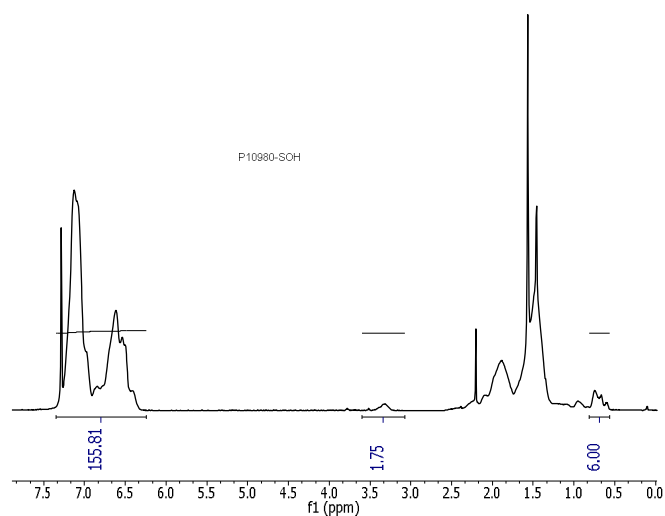
Characterization:

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

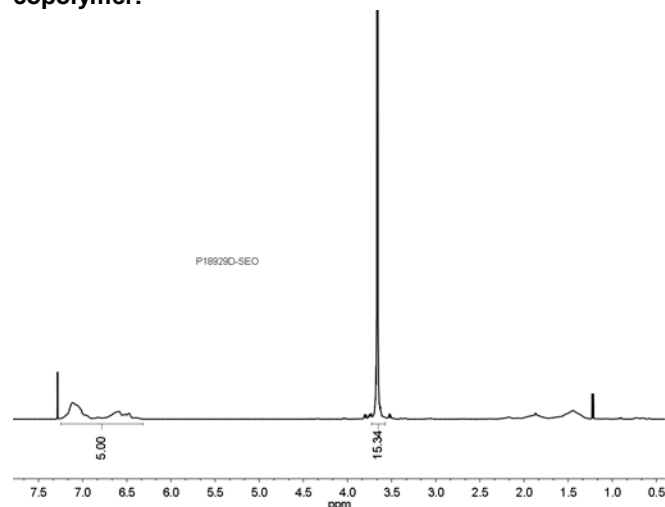
Solubility:

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 (500 MHz, CDCl₃) of the PS-OH homopolymer:

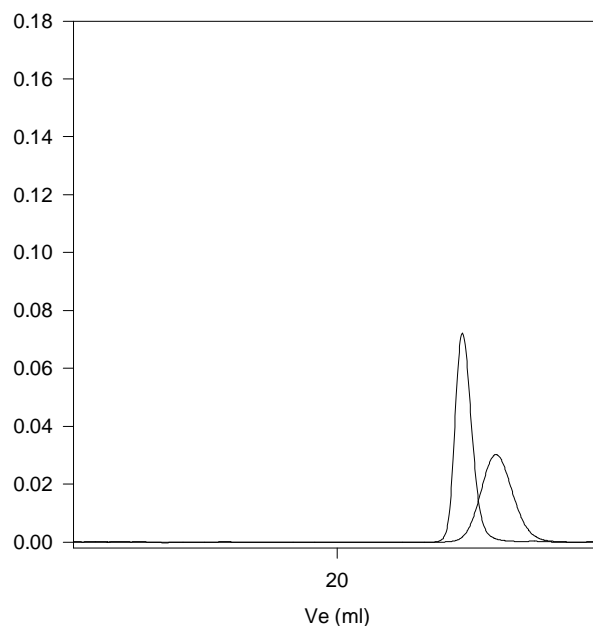


¹H NMR (500 MHz, CDCl₃) of the PS-PEO diblock copolymer:



SEC elograms of PS and PS-PEO:

P18929D-SEO



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

—— Poly(styrene), M_n=3,500, M_w=3,900, PI=1.11

—— Block Copolymer PS(3,500)-b-PEO(5,700), PI=1.09