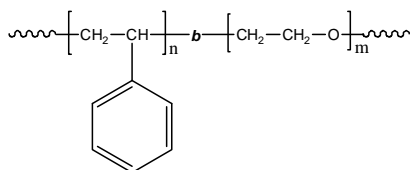


Sample Name: Poly(styrene-b-ethylene oxide)

Sample #: P18931-SEO

Structure:



Composition:

Mn x 10 ³	PDI
3.2-b-3.1	1.08

Synthesis procedure:

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

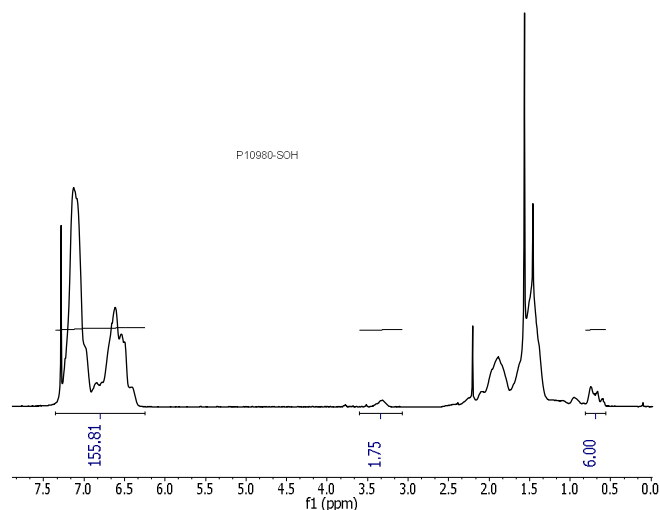
Characterization:

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

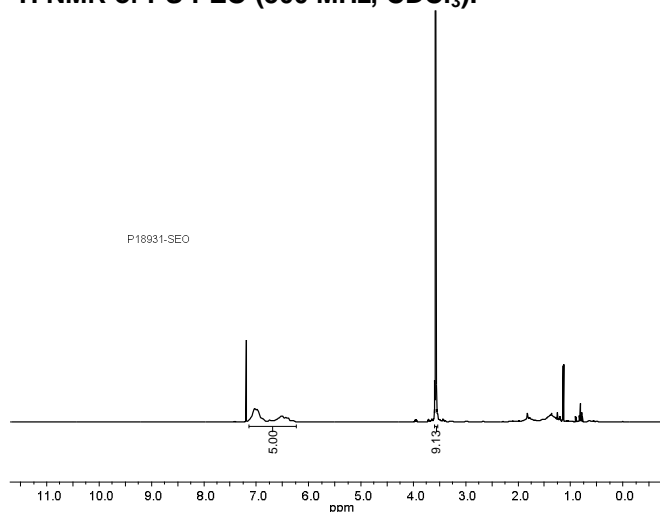
Solubility:

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:

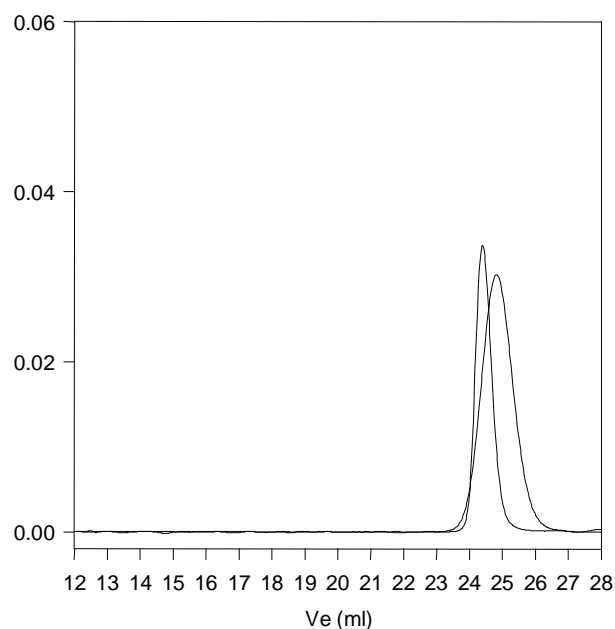


¹H NMR of PS-PEO (500 MHz, CDCl₃):



SEC elugrams of PS and PS-PEO:

P18931B-SEO



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

— Poly(styrene), M_n=3200, M_w=3400, PI=1.06

— Block Copolymer PSt(3200)-b-PEO(3100), PI=1.08