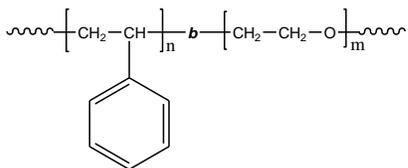


Sample Name: Poly(styrene-b-ethylene oxide)

Sample #: P19242-SEO

Structure:



Composition:

$M_n \times 10^3$	PDI
5.2-b-3.0	1.08

Synthesis procedure:

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

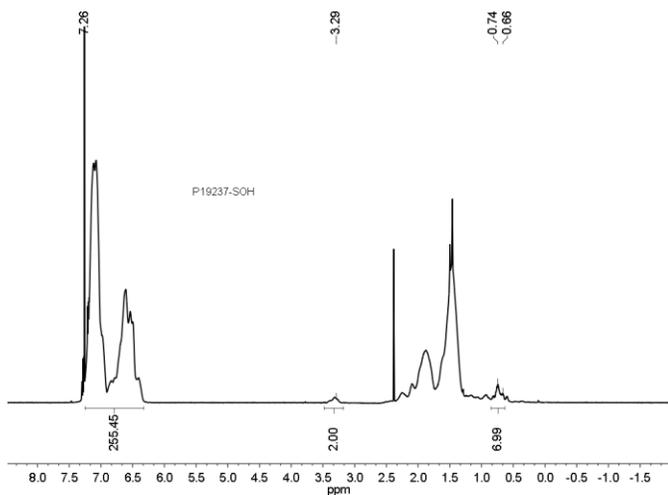
Characterization:

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

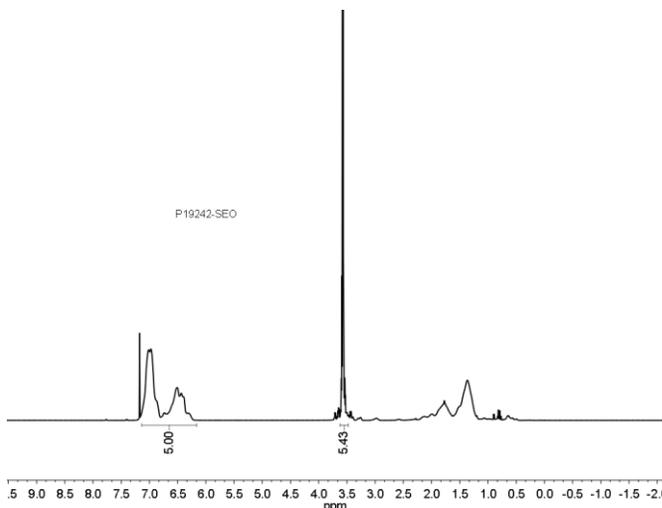
Solubility:

The polymer is soluble in THF (at 35 °C), $CHCl_3$, 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: lot # P19242

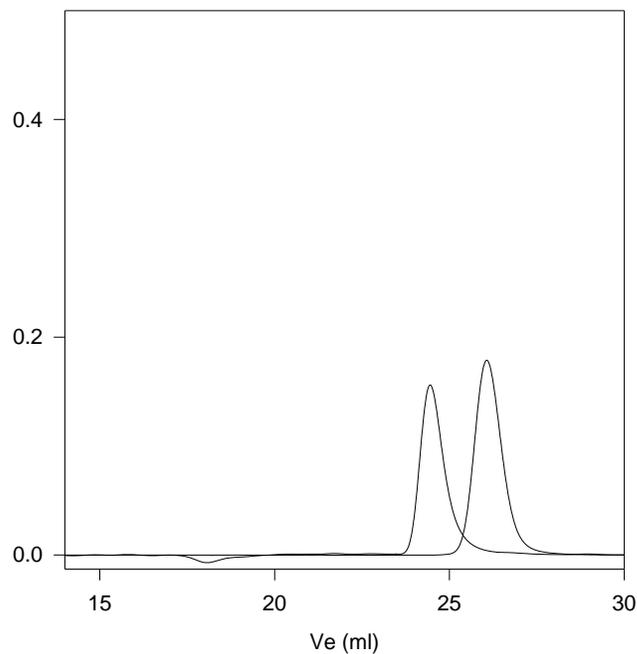


1H NMR of PS-PEO (500 MHz, $CDCl_3$):



SEC elugrams of PS and PS-PEO:

P19242-SEO



Size Exclusion Chromatography:

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

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

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