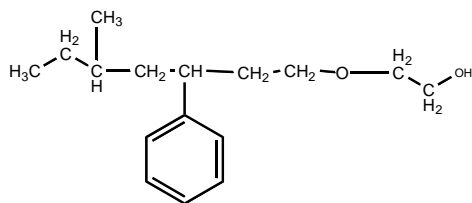


**Sample Name:** Poly (styrene-b-ethylene oxide)

**Sample #:** P41627-SEO

**Structure:**



**Composition:**

Mn x10-3	PDI
14.0-b-6.0	1.09

**Synthesis Procedure:**

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

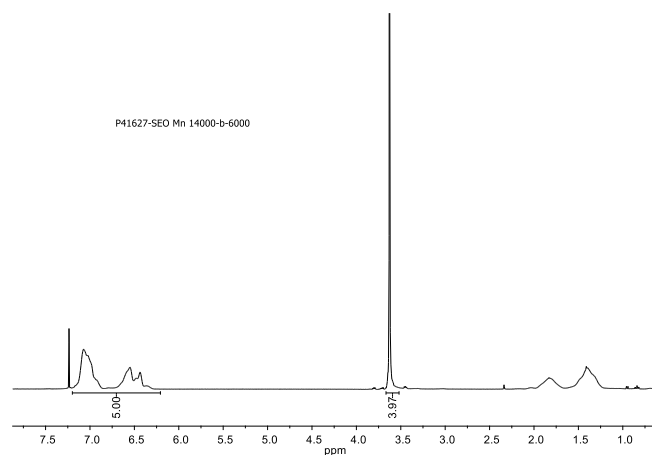
**Characterization:**

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

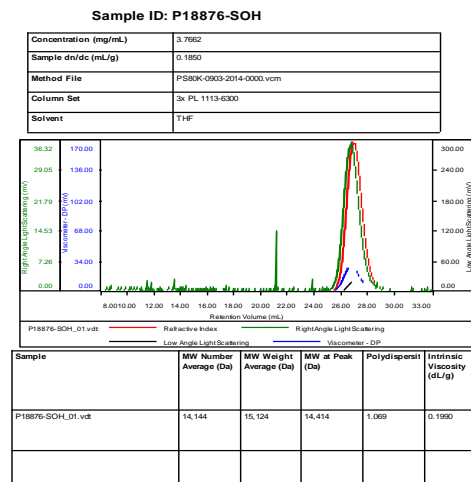
**Solubility:**

The polymer is soluble in THF, CHCl<sub>3</sub>, benzene, toluene, dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

**<sup>1</sup>H NMR spectrum of the sample:**

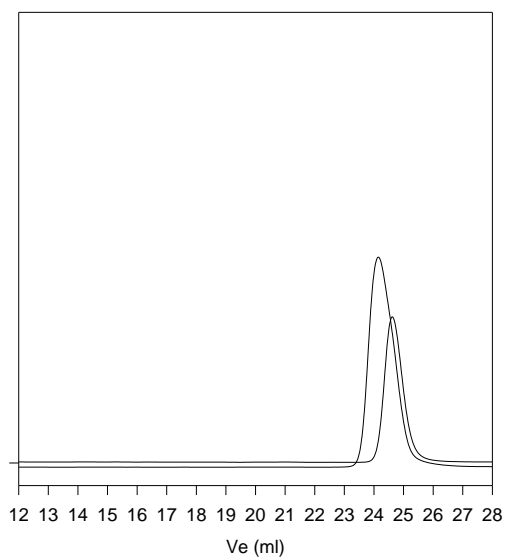


**SEC elugram of the SOH sample:**



**SEC profile of the block copolymer:**

**P41627-SEO**



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

— Poly(styrene), M<sub>n</sub>=14,000, M<sub>w</sub>=15,000, PI=1.06  
— Block Copolymer PSt(14,000)-b-PEO(6,000), PI=1.09  
The composition determined from HNMR.