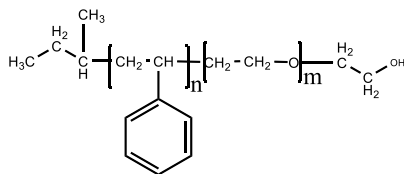


Sample Name: Poly (styrene-b-ethylene oxide)

Sample #: P42531-SEO

Structure:



Composition:

Mn x10-3	PDI
1.0-b-3,0	1.10

Synthesis Procedure:

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

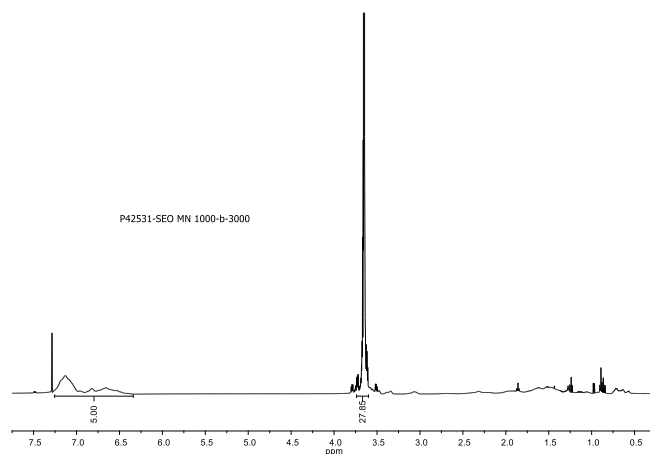
Characterization:

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

Solubility:

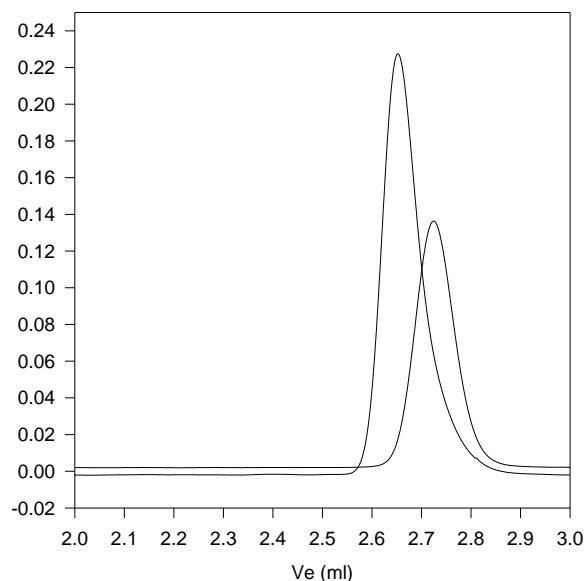
The polymer is soluble in THF, CHCl₃, benzene, toluene and dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

¹H-NMR spectrum of the sample:



SEC elugram of the SOH sample:

P42531-SEO



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

— Poly(styrene), M_n=1,000, M_w=1,100, PI=1.05
— Block Copolymer PSt(1,000)-b-PEO(3,000), PI=1.10
The composition determined from HNMR.