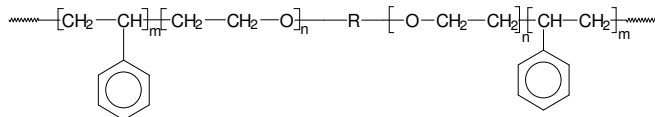


**Sample Name:** Poly(styrene-b-ethylene oxide-b-styrene)

**Sample #:** P18787-SEOS

**Structure:**

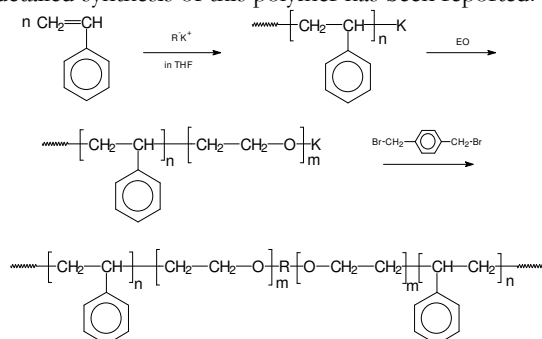


**Composition:**

Mn x 10 <sup>3</sup> S-b-EO-b-S	PDI
10.-b-37.0-b-10.0	1.20

**Synthetic Procedure:**

The detailed synthesis of this polymer has been reported.<sup>1</sup>



**Characterization:**

Polymer was analyzed by size exclusion chromatography (SEC) and by NMR.

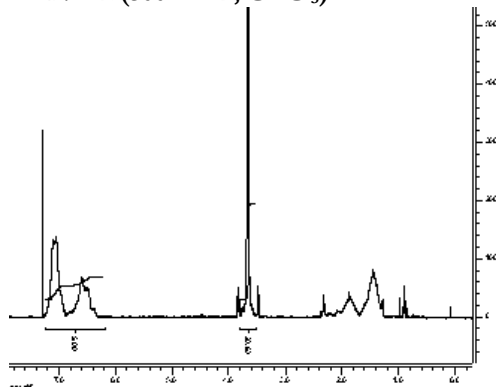
**Solubility:**

The polymer is soluble in THF, toluene, and CHCl<sub>3</sub>.

**Purification of the polymer to remove unlinked fraction:**

Product was purified to remove the unlinked fraction of the diblock copolymer by passing the polymer solution (by taking different solvent mixture) through Silica column to remove unlinked fraction of Poly(St-b-EO).

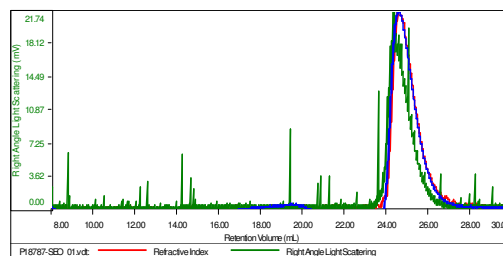
**<sup>1</sup>H-NMR (500 MHz, CDCl<sub>3</sub>)**



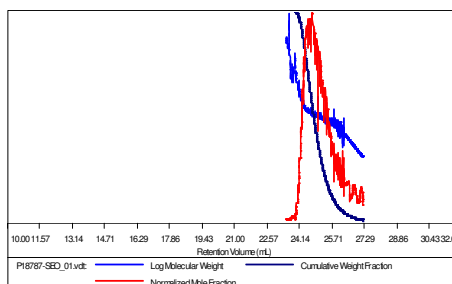
**SEC of SEO before linking :**

**Sample ID:** P18787\_SEO diblock

Concentration (mg/mL)	0.6991
Sample dwtc (mL/g)	0.0920
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

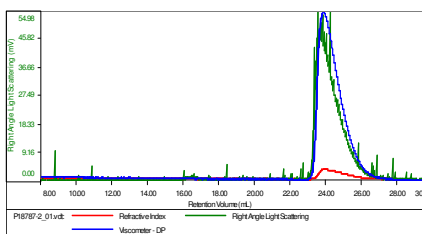


Sample	Mh	Mw	Mp	Mw/Mh	IV
P18787-SEO_01.vdt	32,226	37,622	37,058	1.167	1.7165

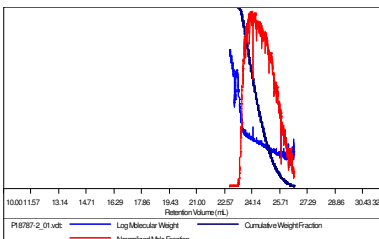


**Sample ID:** P18787-SEOS Triblock

Concentration (mg/mL)	1.2056
Sample dwtc (mL/g)	0.0920
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh	Mw	Mp	Mw/Mh	IV
P18787-2_01.vdt	56,912	68,555	72,515	1.205	2.4052



**References:**

1. S.K. Varshney, Xing Fu. Zhong, P. Kesani, N.Varshney; "Architecturally control polymers from Academia to the Industry"; ACS-Symposium, Orlando, August, 1996.