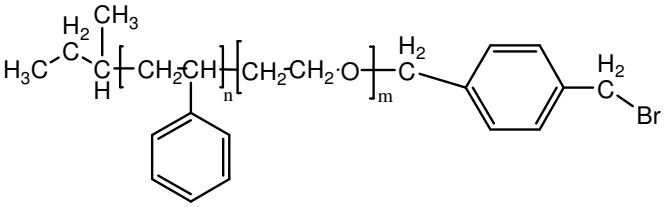
Sample Name:
Benzyl Bromide end functionalized Poly(styrene-b-ethylene oxide)

Sample #: **P18779-SEO BzBr**

Structure:



Composition:

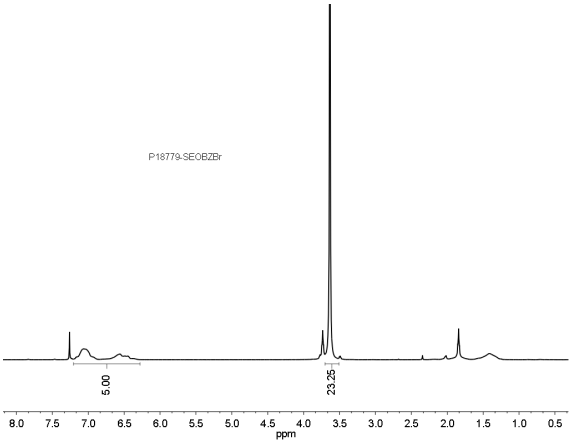
Mn x 10^3 S-b-EO	PDI
12.5-b-25.5	1.15
BzBr functionality by HNMR/titration	> 80 %

Synthesis Procedure:
By anionic process .

Characterization:
The diblock polymer was first analyzed by size exclusion and chromatography (SEC) and ^{1}H-NMR to obtain the composition molecular weight and polydispersity index (PDI). The functionality of the resulted polymer was confirmed by ^{1}H-NMR spectroscopy using CH2 group adjacent to COOH.

Solubility:
Functionalized poly(styrene-ethylene oxide) is soluble in $CHCl_3$, THF, and precipitated out from hexane or cold diethyl ether.

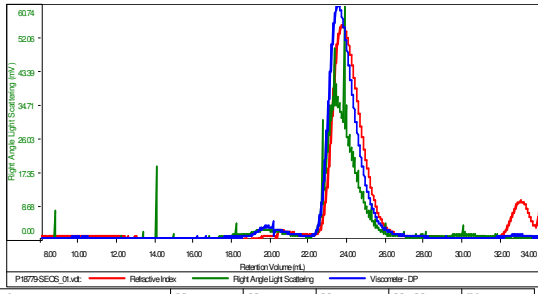
NMR of diblock SEO:



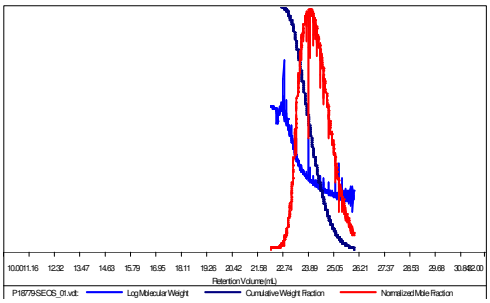
SEC of the diblcok polymer:

Sample ID: P18779-SEO

Concentration (mg/mL)	0.8621
Sample dn/dc (mL/g)	0.1240
Mathod File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18779-SEOS_01.vdt	38,944	44,827	41,265	1.151	3.3417



P18779-SEOBzBr