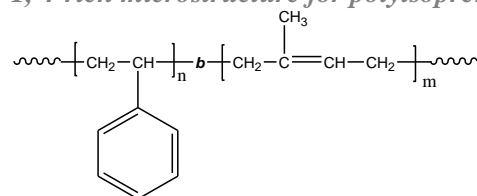


**Sample Name: Poly (styrene-b-isoprene)**  
*(Polyisoprene rich in 1, 4-addition)*

**Sample #: P40774-SIp**

*1, 4-rich microstructure for polyisoprene block:*



### Composition:

Mn x 10 <sup>3</sup> S-b-Ip	Mw/Mn (PDI)
65.0-b-30.0	1.05

### Synthesis Procedure:

Poly (styrene-b-isoprene) is prepared by living anionic polymerization process.

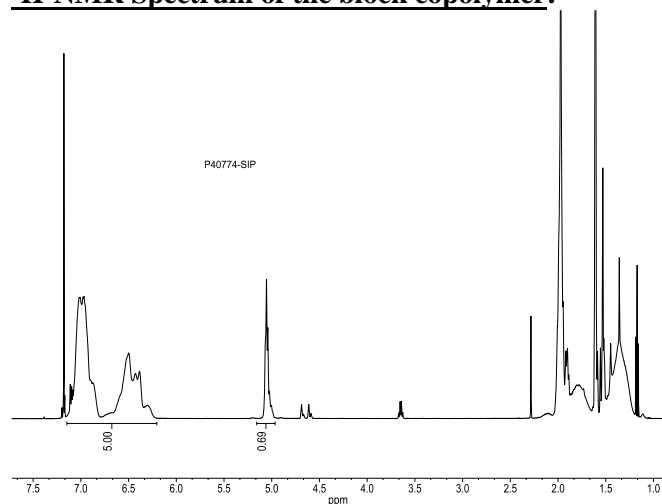
### Characterization:

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

### Solubility:

Poly (styrene-b-isoprene) is soluble in THF, toluene, dioxane and CHCl<sub>3</sub>. This polymer readily precipitates from methanol, ethanol, and water

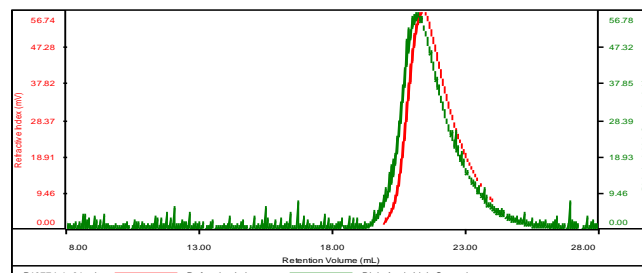
### <sup>1</sup>H-NMR Spectrum of the block copolymer:



### SEC of Sample of the Styrene block:

#### P40774-S

Concentration (mg/mL)	0.3749
Sample dn/dc (mL/g)	0.1850
Method File	PS100K-SEPT19-2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

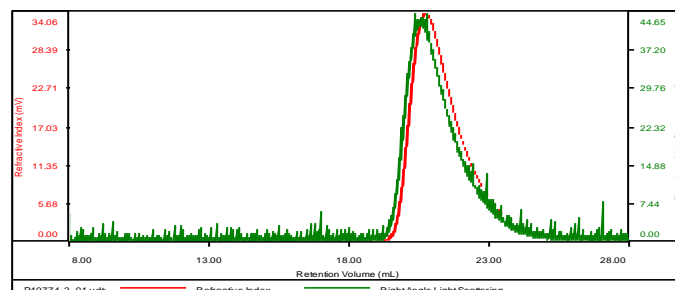


Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40774-1_01.vdt	65,082	70,366	1.081	1.0000	65,299

### SEC elugram of the Sample:

#### P40774-SIp

Concentration (mg/mL)	0.2574
Sample dn/dc (mL/g)	0.1610
Method File	PS100K-SEPT19-2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40774-2_01.vdt	95,053	99,661	1.048	0.3570	97,216