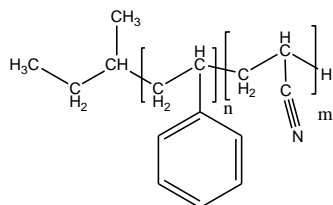


**Sample Name:** Poly (Styrene-b-Acrylonitrile)

**Sample #:** P41224-SACN

**Structure:**



**Composition:**

Mn $\times 10^3$ SA-b-ACN	Mw/Mn (PDI)
17.0-b-5.0	1.09

Color: Orange

**Synthesis Procedure:**

The polymer is prepared by anionic polymerization process.

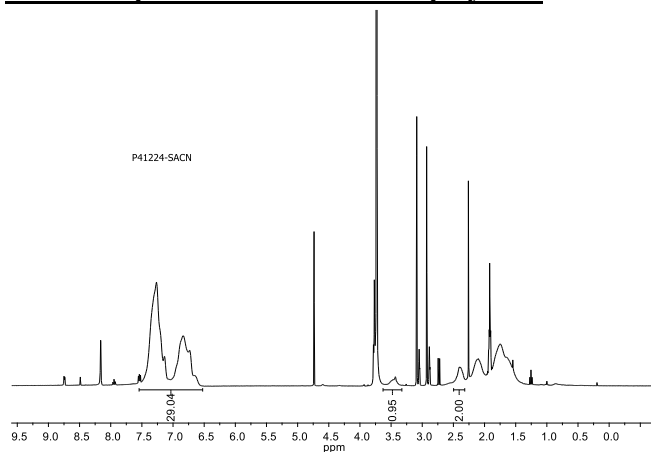
**Characterization:**

The polymer was characterized by size exclusion chromatography (SEC) in DMF and  $^1\text{H}$  NMR.

**Solubility:**

Polymer is soluble in THF, DMF, and precipitated in methanol and hexanes.

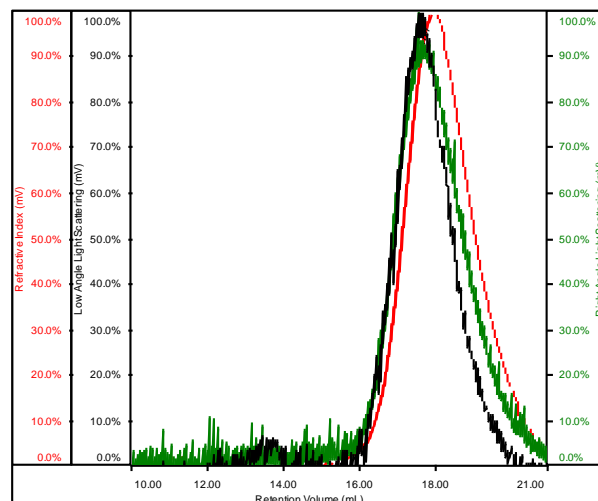
**$^1\text{H}$  NMR spectrum of the block copolymer:**



**SEC elugram of the S block:**

**P41224-S block**

Conc	1.7851
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm

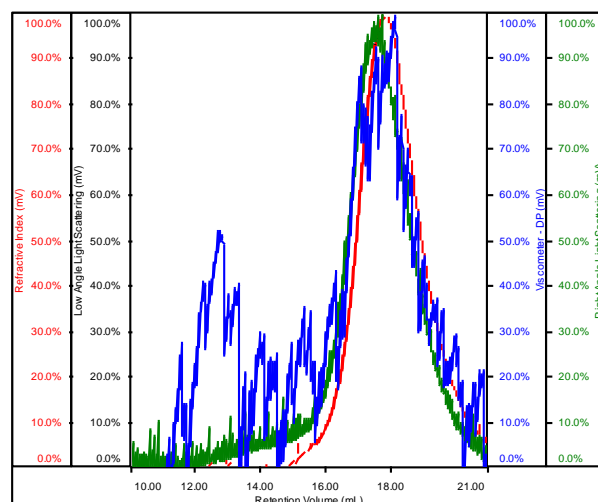


Sample	Mn	Mw	Mp	Mw/Mn	IV
P41224-1_01.vdt	17,315	18,401	17,710	1.063	0.2797

**SEC elugram of the Sample:**

**P41224-SACN**

Conc	2.7830
dn/dc	0.1300
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41224-2_01.vdt	22,150	24,096	22,730	1.088	0.3337