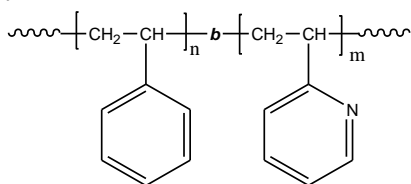


Sample Name: Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P40879-S2VP

Structure:



Composition:

Mn x 10 ³ PS-b-2VP	PDI
80.0-b-53.0	1.08
T _g for PS block: 98°C	T _g for 2VP block: 146°C

Synthesis Procedure:

Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at -78°C in the presence of LiCl as an additive.

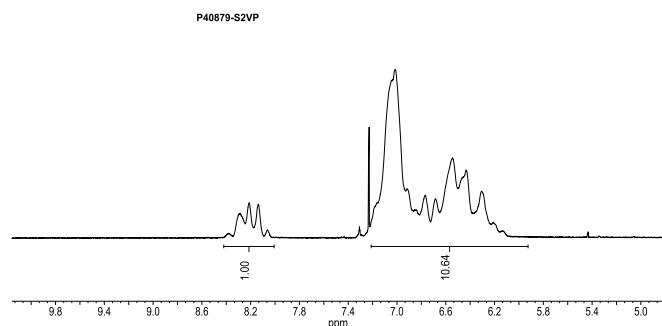
Characterization:

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

Solubility:

Poly (styrene-*b*-2 vinylpyridine) is soluble in THF, toluene, and CHCl₃. The diblock copolymer can also be solubilized in methanol, ethanol depending on its composition. The polymer readily precipitates from hexanes, ether and water.

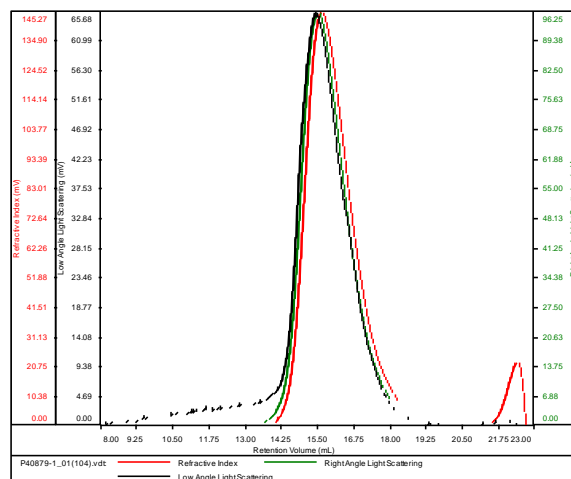
¹H NMR Spectrum of the Sample:



SEC elugram of the S block:

P40879-1

Conc	7.0205
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-04Dec2017-0000.vcm

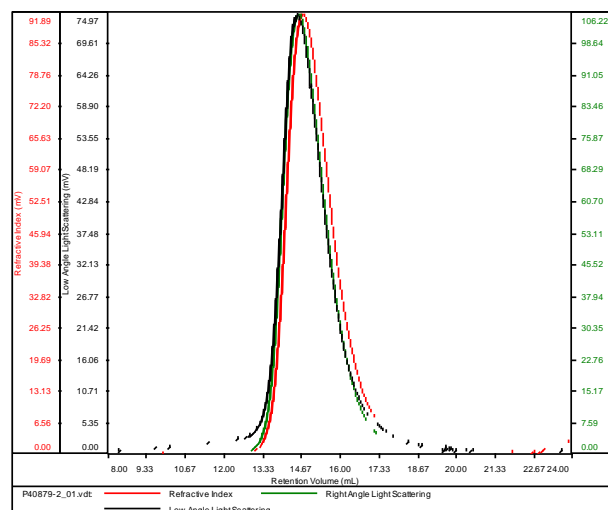


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40879-1_01(104).vdt	76,951	82,206	78,750	1.068	0.2450

SEC elugram of the Sample:

P40879-S2VP

Conc	4.6267
dn/dc	0.1600
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-nov302017-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40879-2_01.vdt	132,543	143,402	144,479	1.082	0.3584