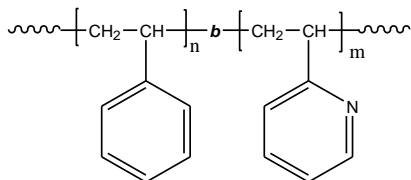


Sample Name: Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P40215-S2VP

Structure:



Composition:

Mn x 10 ³ PS-b-2VP	PDI
65.0-b-40.0	1.04
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.

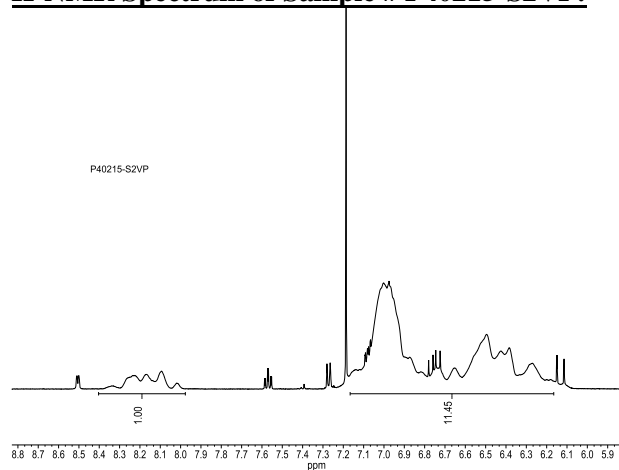
Characterization:

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.

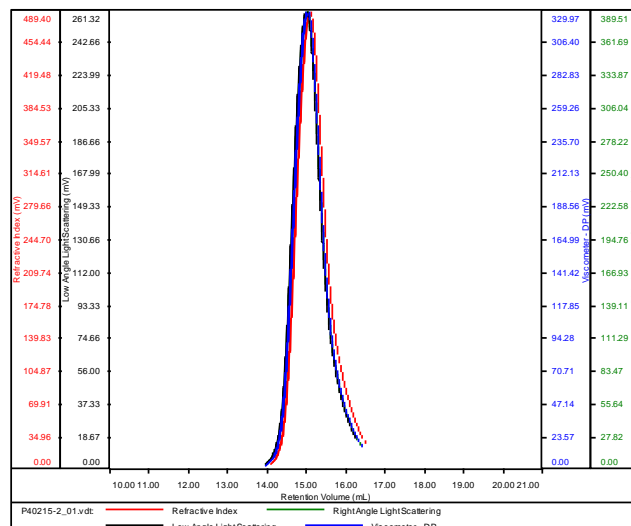
H-NMR Spectrum of Sample # P40215-S2VP:



SEC elugram of the Sample:

P40215-2-S2VP

Conc (mg/mL)	17.4818
dn/dc (mL/g)	0.1600
Method	PS80k-Nov162016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40215-2_01.vdt	104,630	108,708	109,370	1.039	0.1908

References:

- (1). S. K. Varshney, X. F. Zhong and A. Eisenberg *Macromolecules*, **1993**, 26, 701-706.
- (2). Z.Gao, S. K. Varshney, S. Wong, A. Eisenberg *Macromolecules*, 1994, 27, 7923-7927.