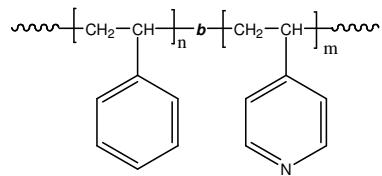


Sample Name: Poly(styrene-b-4-vinyl pyridine)

Sample #: P19986-S4VP

### Structure:



### Composition:

Mn x 10 <sup>3</sup> PS-b-4VP	PDI
650.0-b-243.0	1.18

T<sub>g</sub> for PS block: 103°C

### Synthesis Procedure:

The polymer was synthesized by anionic process.

### Characterization:

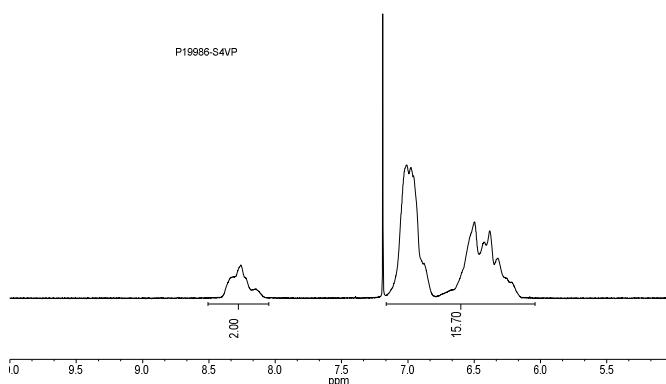
The polymer was characterized by <sup>1</sup>H NMR and SEC.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 15°C/min. The inflection glass transition temperature (T<sub>g</sub>) of the sample has been considered.

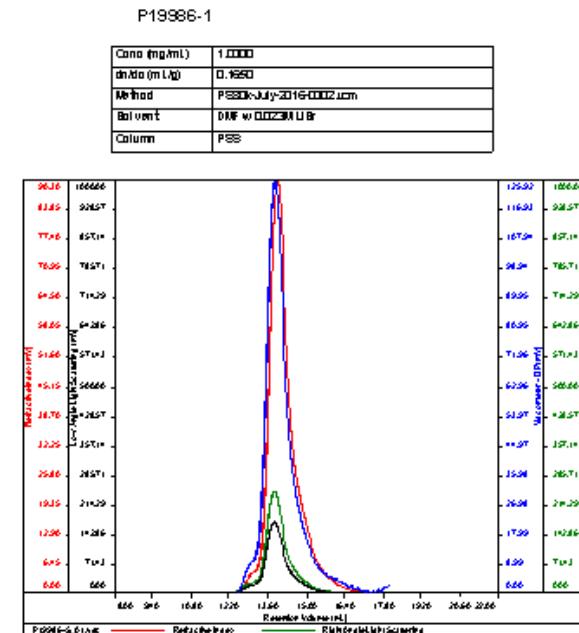
### Solubility:

Poly(styrene-b-4-vinyl pyridine) is soluble in DMF, CHCl<sub>3</sub>. The polymer can also be solubilized in THF depending on its chemical composition. The polymer readily precipitates from hexanes and diethyl ether.

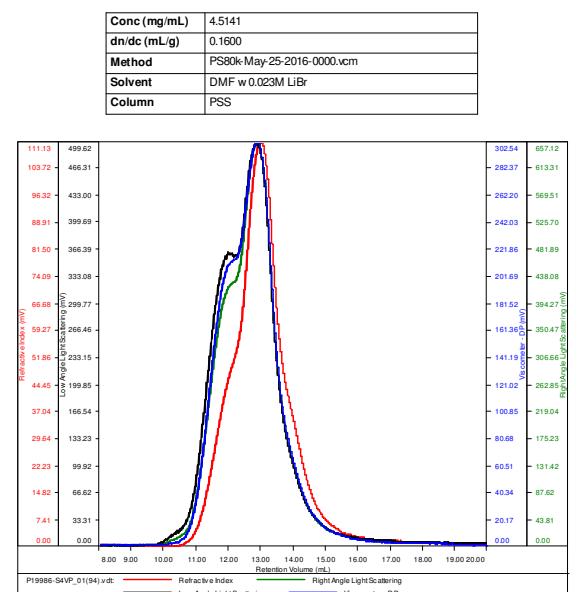
### <sup>1</sup>H NMR spectrum of the polymer:



### SEC elugram of the polymer:



Sample ID:19986-S4VP



Sample	Mn	Mw	M <sub>p</sub>	Mw/Mn	IV
P19986-S4VP_01(94).vdt	892,940	1.056 e 6	876,625	1.183	1.4400

### 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.