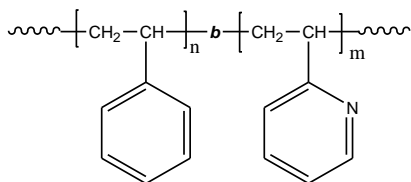


Sample Name: Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P40880-S2VP

Structure:



Composition:

| | |
|-----------------------------------|-------------------------------------|
| Mn x 10 ³ PS-b-2VP | PDI |
| 95.0-b-47.0 | 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.

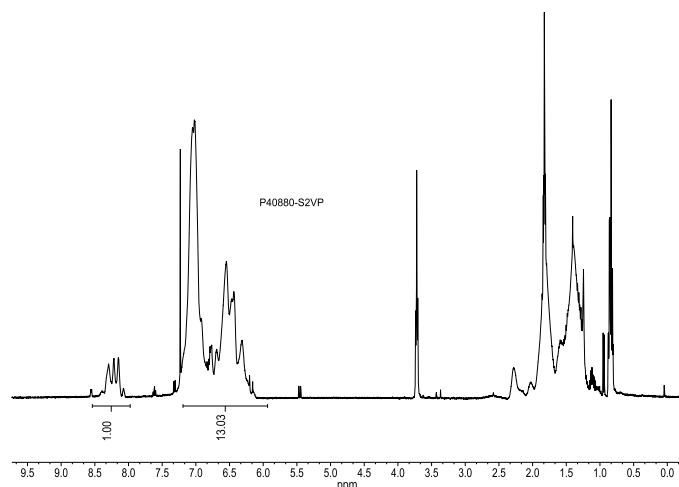
Characterization:

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.

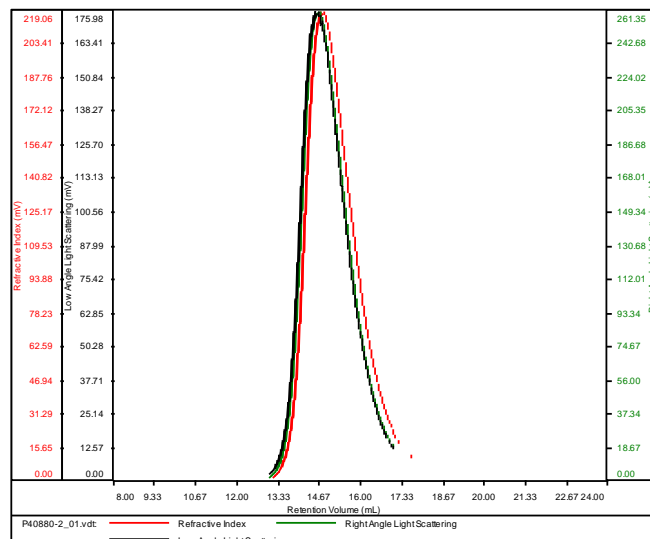
H-NMR Spectrum of the Sample:



SEC elugram of the Sample:

P40880-S2VP

| | |
|-----------|--------------------------|
| Conc | 10.8726 |
| 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 |
|-----------------|---------|---------|---------|-------|--------|
| P40880-2_01.vdt | 142,560 | 148,293 | 149,371 | 1.040 | 0.4322 |