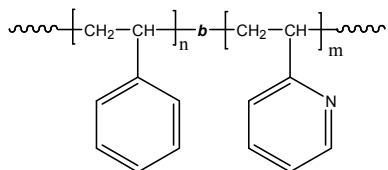


Sample Name:

Polystyrene-*b*-poly (2-vinyl pyridine)

Sample #: **P40075-S2VP**

Structure:



Composition of PS-*b*-P2VP diblock copolymer:

$M_n \times 10^3$ (g/mol)	PDI
781.0- <i>b</i> -35.0	1.09

Synthesis:

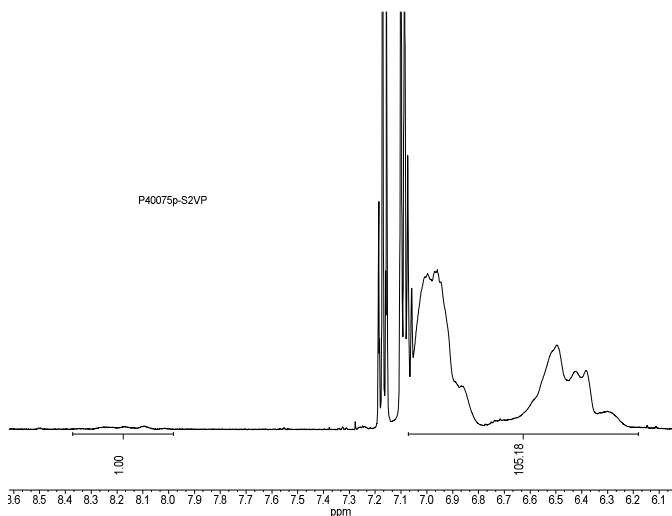
Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at -78°C in the presence of LiCl as an additive.

Characterization: The polymer was characterized by ^1H NMR and SEC.

Solubility:

Poly (styrene-*b*-2 vinylpyridine) is soluble in THF, toluene, and CHCl_3 . The diblock copolymer can also be solubilized in methanol, ethanol depending on its composition. The polymer readily precipitates from hexanes, ether and water.

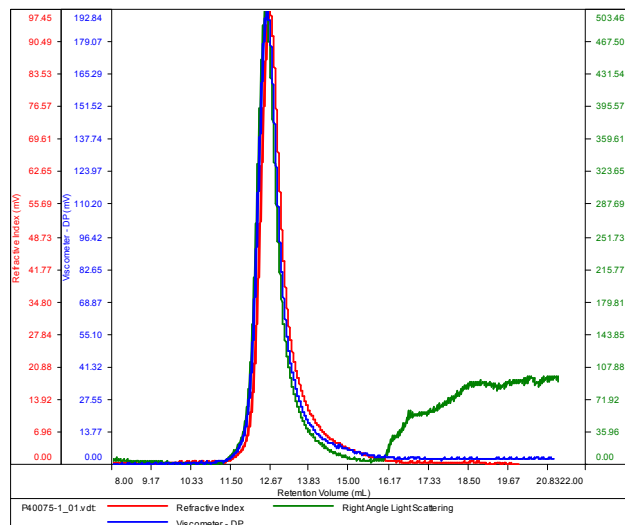
^1H NMR spectrum of PS-*b*-P2VP:



SEC elugram of PS:

P40075-1

Conc (mg/mL)	1.3715
dn/dc (mL/g)	0.1650
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	M_n	M_w	M_p	M_w/M_n	IV
P40075-1_01.vdt	781,347	851,438	876,406	1.090	1.3548

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.