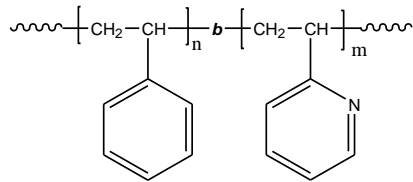


Sample Name: Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P40763-S2VP

Structure:



Composition:

Mn x 10 ³ PS-b-2VP	PDI
11.8-b-15.0	1.11
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.

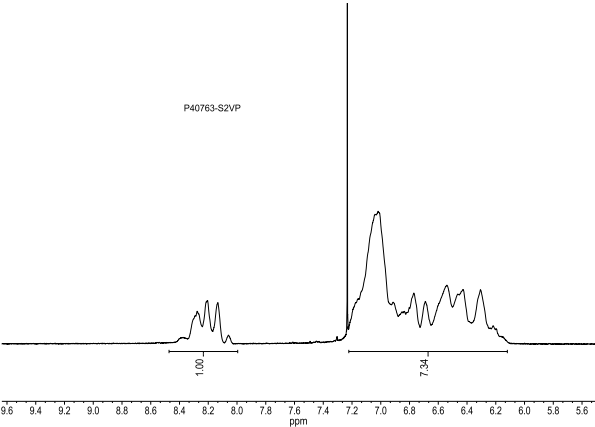
Characterization:

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

Solubility:

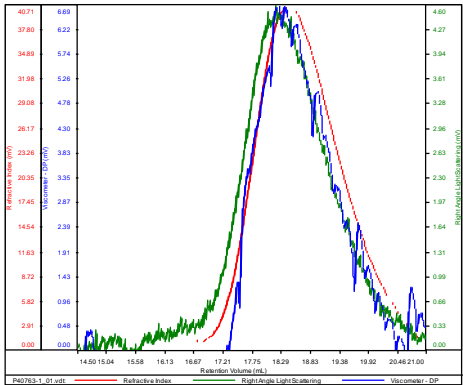
Poly (styrene-*b*-2 vinylpyridine) is soluble in THF, toluene, and CHCl₃. The diblock copolymer can also be solubilized in methanol, ethanol depending on its composition. The polymer readily precipitates from hexanes, ether and water.

H-NMR Spectrum of Sample



SEC elugram of PS Block:

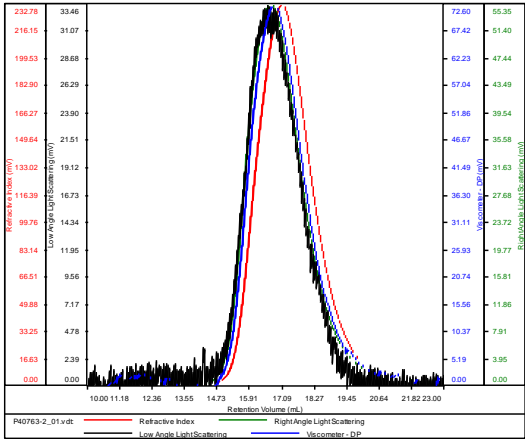
Conc	3.5101
dn/dc	0.1650
Solvent	DMF w 0.023MLiBr
Flow Rate	0.7000
Method	PS-80k_2017-September-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40763-1_01.vdt	11,845	12,369	12,111	1.044	0.0360

SEC elugram of the Sample:

Conc	26.5595
dn/dc	0.1560
Solvent	DMF w 0.023MLiBr
Flow Rate	0.7000
Method	PS-80k_2017-September-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40763-2_01.vdt	26,779	29,714	26,980	1.110	0.0749