

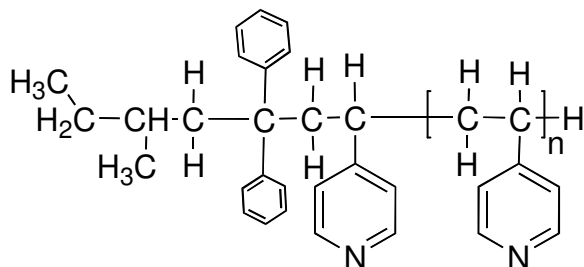
**Sample Name:** Poly(4-vinyl pyridine)

**SEC of Homopolymer:**

**Sample #:** P18786-4VP

**SAMPLE ID:** P18786-4VP

**Structure:**

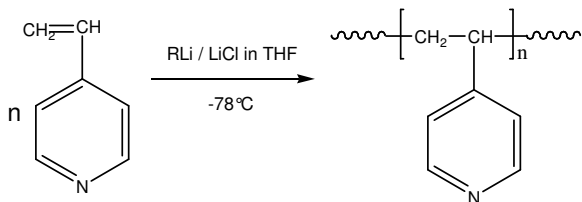


**Composition:**

Mn x10-3	PDI
3.2	1.12

**Synthesis Procedure:**

Poly(4-vinyl pyridine) is obtained by living anionic polymerization of 4-vinyl pyridine as illustrated below:



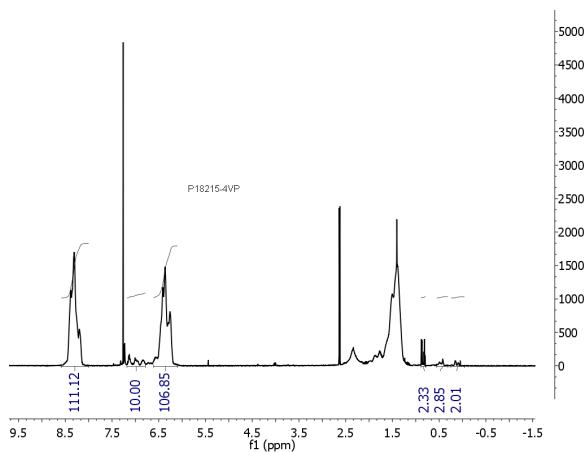
**Characterization:**

The molecular weight and polydispersity index (PDI) of poly(4-vinyl pyridine) are obtained by size exclusion chromatography in DMF.

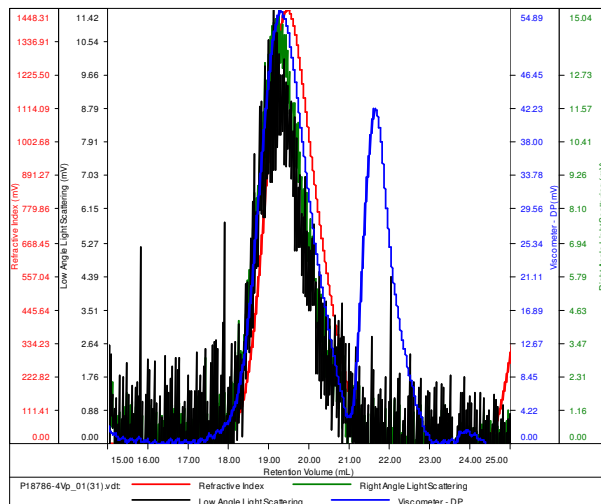
**Solubility:**

Poly(4-vinylpyridine) is soluble in DMF, THF, toluene, methanol, ethanol and  $\text{CHCl}_3$ . It precipitates from water and hexanes, ether.

**H NMR:**



Conc (mg/mL)	21.2088
dn/dc (mL/g)	0.1530
Method	ps80klJune2014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mv	Mp	Mw/Mn	IV
P18786-4VP_01(31).vdt	3,128	3,515	3,611	1.124	0.0431