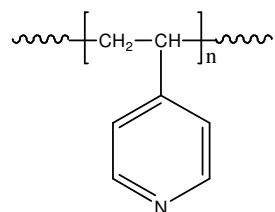


**Sample Name:** Poly(4-vinyl pyridine)

**Sample #:** P130-4VP

**Structure:**

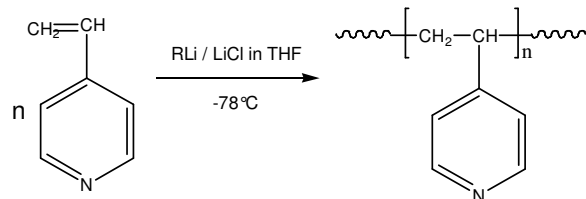


**Composition:**

Mn x 10 <sup>3</sup>	PDI
36.3	1.17

**Synthesis Procedure:**

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



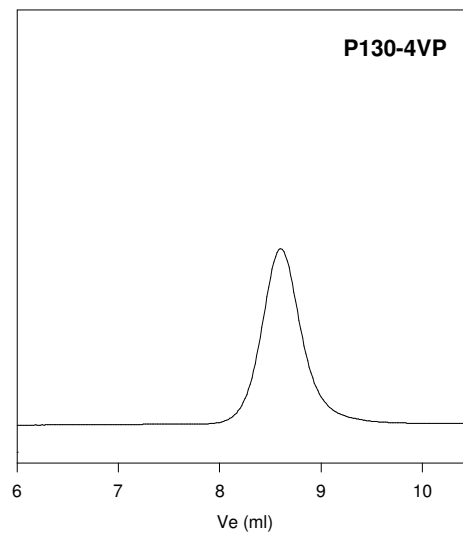
**Characterization:**

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

**Solubility:**

Poly(4-vinylpyridine) is soluble in DMF, THF, toluene, methanol, ethanol and CHCl<sub>3</sub>. It precipitates from water and hexanes, ether.

**SEC of Homopolymer:**



Size Exclusion Chromatography of Poly(4-vinylpyridine):  
M<sub>n</sub>=36300, M<sub>w</sub>=42500, M<sub>z</sub>=48800, PI=1.17