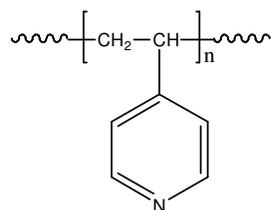


## Sample Name: Poly(4-vinyl pyridine)

Sample #: P2372-4VP

### Structure:

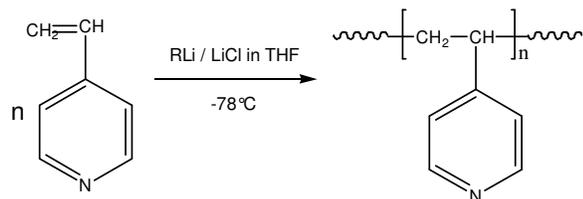


### Composition:

Mn x 10 <sup>3</sup>	PDI
3.0	1.50

### Synthesis Procedure:

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



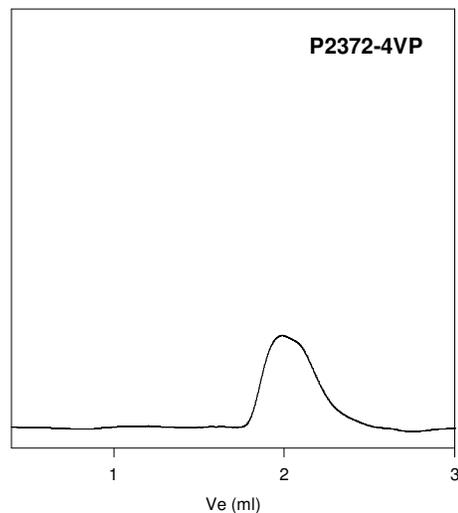
### Characterization:

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>=3000, M<sub>w</sub>=4500, PI=1.50