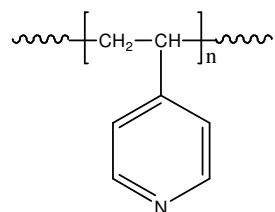


**Sample Name:** Poly(4-vinyl pyridine)

**Sample #:** P3414-4VP

**Structure:**

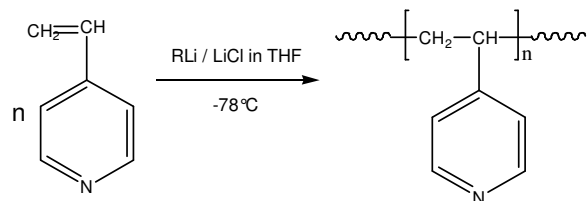


**Composition:**

|                      |      |
|----------------------|------|
| Mn x 10 <sup>3</sup> | PDI  |
| 4.3                  | 1.20 |

**Synthesis Procedure:**

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



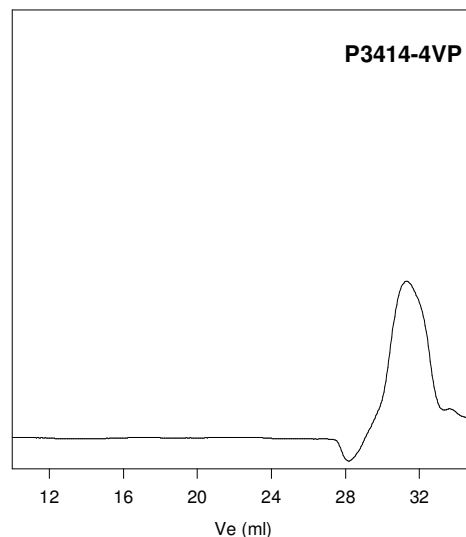
**Characterization:**

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>=4300, M<sub>w</sub>=5200, PI=1.20