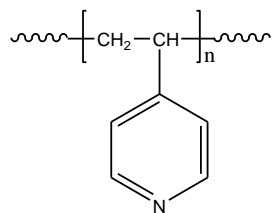


**Sample Name: Poly (4-vinyl pyridine)**

**Sample #: P137-4VP**

**Structure:**

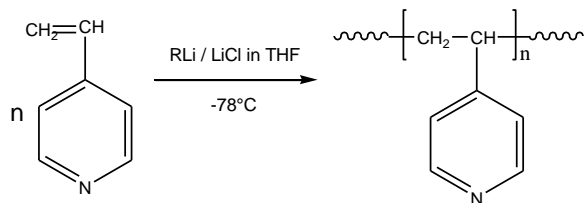


**Composition:**

Mn x 10 <sup>3</sup>	PDI
18.1	1.11

**Synthesis Procedure:**

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



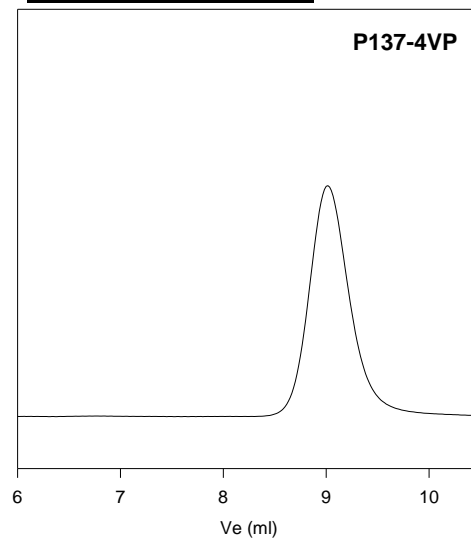
**Characterization:**

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>=18100, M<sub>w</sub>=20100, M<sub>z</sub>=22100, PI=1.11