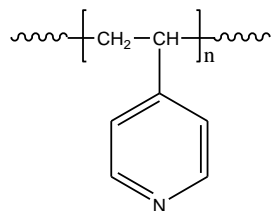


**Sample Name: Poly(4-vinyl pyridine)**

**Sample #: P8278-4VP**

**Structure:**

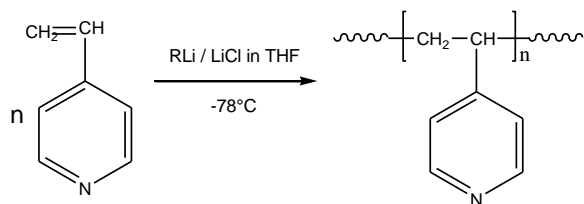


**Composition:**

$M_n \times 10^3$	PDI
7.0	1.16

**Synthesis Procedure:**

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



**Characterization:**

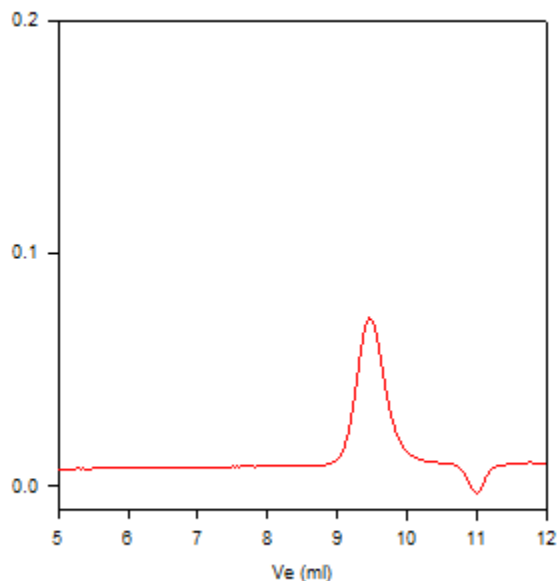
The molecular weight and polydispersity index (PDI) of poly(4-vinyl pyridine) are obtained by size exclusion chromatography.

**Solubility:**

Poly(4-vinylpyridine) is soluble in DMF, THF, toluene, methanol, ethanol and  $CHCl_3$ . It precipitates from water and hexanes, ether.

**SEC of Homopolymer:**

**P8276-4VP**



Size Exclusion Chromatography of Poly(4-vinylpyridine)  
 $M_n=7000$ ,  $M_w=8100$  PDI=1.16