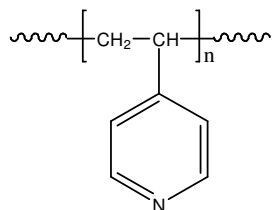


**Sample Name:** Poly(4-vinyl pyridine)

**Sample #:** P4968-4VP

**Structure:**

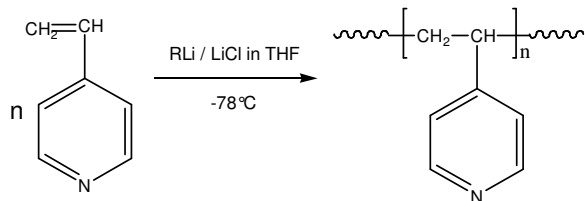


**Composition:**

$M_n \times 10^3$	PDI
7.5	1.15

**Synthesis Procedure:**

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



**Characterization:**

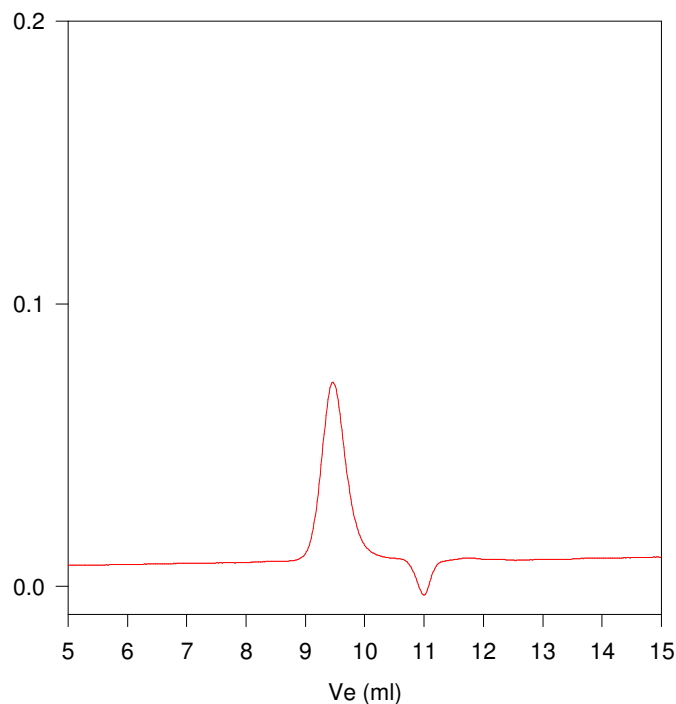
The molecular weight and polydispersity index (PDI) of poly(4-vinyl pyridine) are obtained by size exclusion chromatography.

**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:**

**P4968-4VP**



Size Exclusion Chromatography of Poly(4-vinylpyridine)

$M_n=7500$ ,  $M_w=8700$  PI=1.15

**References:**

- (1). S. K. Varshney, X. F. Zhong and A. Eisenberg  
*Macromolecules*,  
**1993**, 26, 701-706.
- (2). Z.Gao, S. K. Varshney, S. Wong, A. Eisenberg  
*Macromolecules*, **1994**, 27, 7923-7