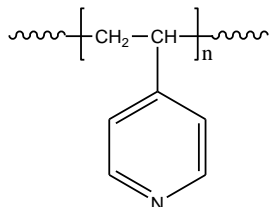


Sample Name: Poly(4-vinyl pyridine)

Sample #: P8063-4VP

Structure:

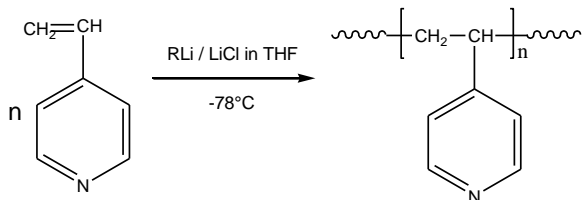


Composition:

$M_n \times 10^3$	PDI
1.0	1.20

Synthesis Procedure:

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



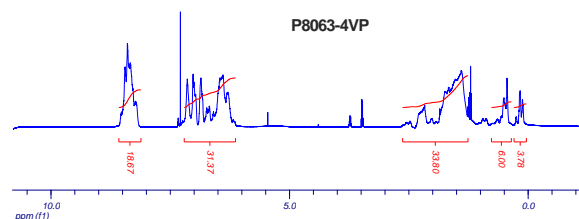
Characterization:

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

Solubility:

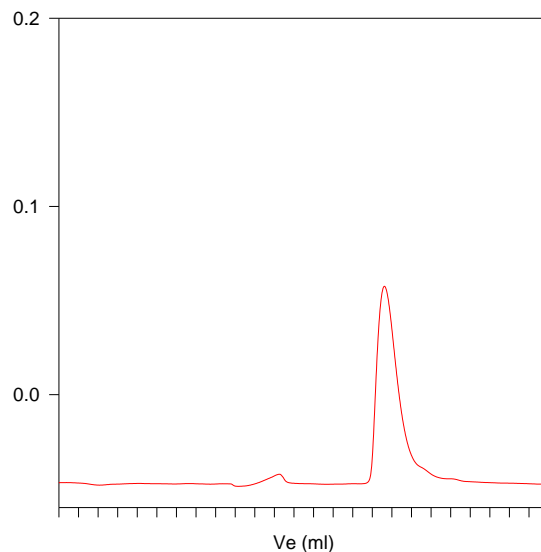
Poly(4-vinylpyridine) is soluble in DMF, THF, toluene, methanol, ethanol and $CHCl_3$. It precipitates from water and hexanes, ether.

H NMR of the polymer:



SEC of Homopolymer:

P8063-4VP



Size Exclusion Chromatography of Poly(4-vinylpyridine)

$M_n=1000$, $M_w=1200$ PI=1.20

From H NMR: 1150

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