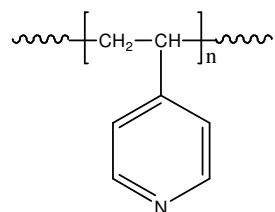


Sample Name: Poly(4-vinyl pyridine)

Sample #: P129-4VP

Structure:

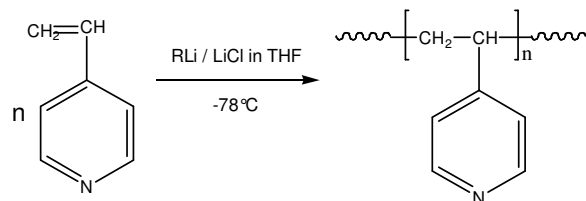


Composition:

Mn x 10 ³	PDI
8.8	1.11

Synthesis Procedure:

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



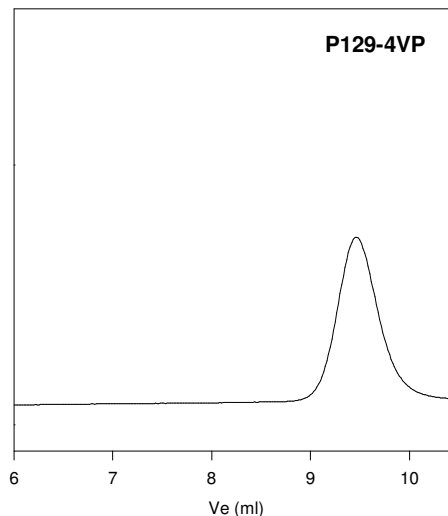
Characterization:

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 CHCl₃. It precipitates from water and hexanes, ether.

SEC of Homopolymer:



Size Exclusion Chromatography of Poly(4-vinylpyridine)

$M_n=8800$, $M_w=9800$, $M_z=10900$, $PI=1.11$