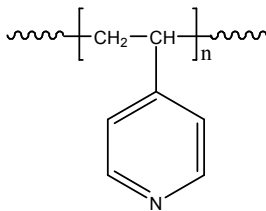


Sample Name: Poly (4-vinyl pyridine)

Sample #: P40425C-4VP

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
12.0	1.2

**Synthesis Procedure:**

Poly (4-vinyl pyridine) is obtained by anionic polymerization.

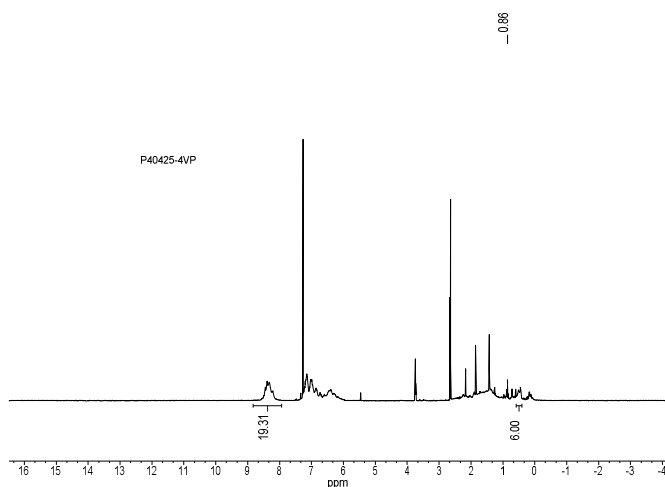
**Characterization:**

The molecular weight and polydispersity index (PDI) obtained by size exclusion chromatography (GPC) using DMF/LiBr 0.02M as an eluant at 50 °C.

**Solubility:**

Poly (4-vinylpyridine) is soluble in DMF, THF, toluene, methanol, ethanol and CHCl<sub>3</sub>. It precipitates from water and hexanes, ether.

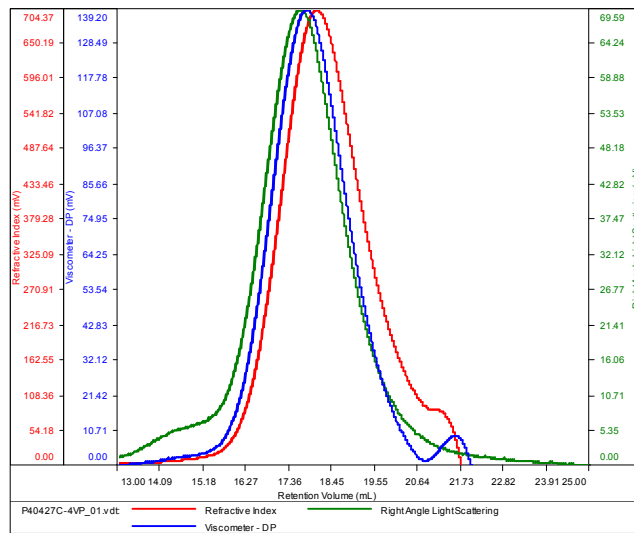
**<sup>1</sup>HNMR spectrum of the Sample:**



**SEC elugram of Homopolymer:**

**P40425C-4VP**

Conc (mg/mL)	70.2459
dn/dc (mL/g)	0.1530
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40427C-4VP_01.vdt	12,070	14,544	13,100	1.205	0.0506

**References:**

S. K. Varshney, X. F. Zhong and A. Eisenberg  
"Anionic Homopolymerization and Block Copolymerization of 4-Vinylpyridine and Its Investigation by High-Temperature Size-Exclusion Chromatography in N-Methyl-2-Pyrrolidinone" CA Vol 118, 12, 102658 Macromolecules, 1993, 26, 701-706.