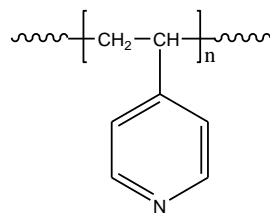


Sample Name: Poly (4-vinyl pyridine)

Sample #: P40425-4VP

Structure:



Composition:

| Mn x10 ³ | PDI |
|---------------------|------|
| 1.4 | 1.07 |

Synthesis Procedure:

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

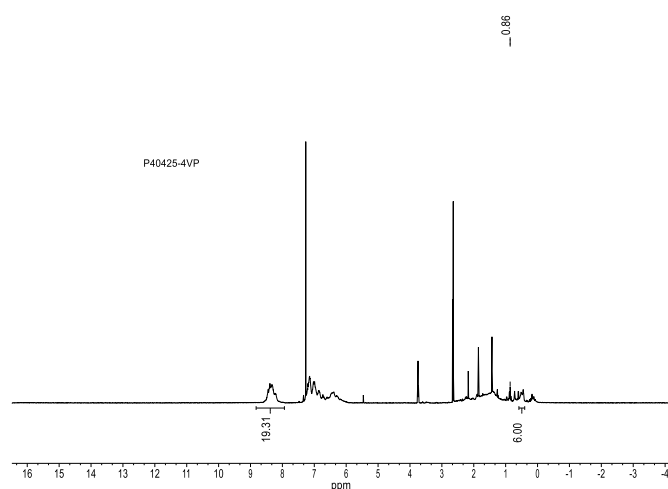
Characterization:

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 CHCl₃. It precipitates from water, hexanes and ether.

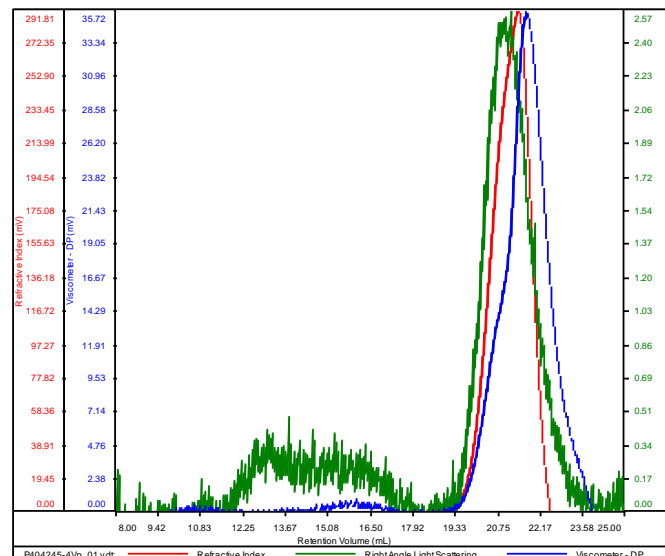
H NMR spectrum of the Sample:



SEC elugram of Homopolymer:

P40425-4VP

| | |
|--------------|------------------------------|
| Conc (mg/mL) | 16.9226 |
| 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 |
|--------------------|-------|-------|-------|-------|--------|
| P404245-4Vp_01.vdt | 1,380 | 1,483 | 1,081 | 1.075 | 0.0314 |

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.