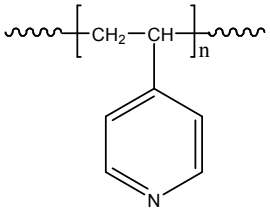
Sample Name: **Poly (4-vinyl pyridine)**

Sample #: **P40424A-4VP**

Structure:



Composition:

Mn x10^3	PDI
77.5	1.05

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

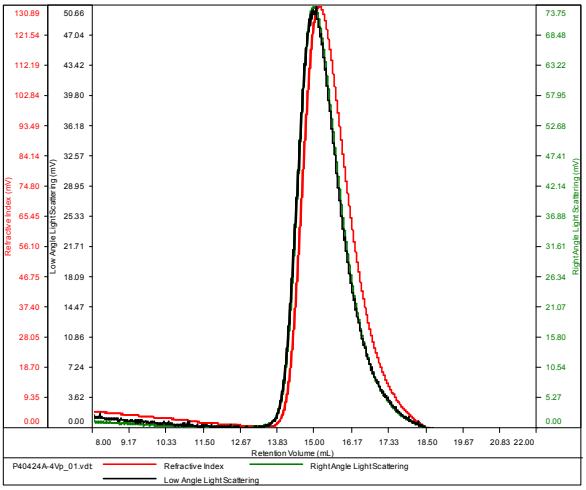
Characterization:
The molecular weight and polydispersity index (PDI) obtained by size exclusion chromatography (GPC) using DMF/LiBr 0.02M as an eluant at 50 ^oC.

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

SEC elugram of Homopolymer:

P40424A-4VP

Conc (mg/mL)	9.0288
dn/dc (mL/g)	0.1530
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	MwMn	IV
P40424A-4Vp_01.vdt	77,680	81,707	83,814	1.052	0.1671

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.