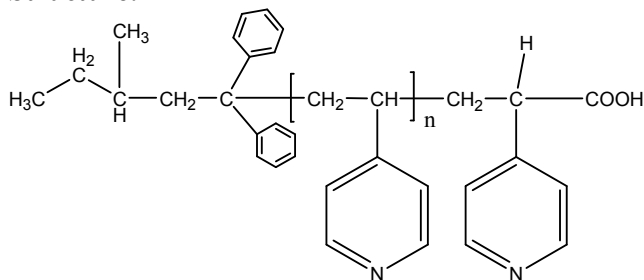


Sample Name:
Carboxy Terminated Poly (4-Vinyl Pyridine)

Sample #: P40364-4VPCOOH

Structure:



Composition:

$M_n \times 10^3$	PDI
6.0	1.04
T_g for the functional polymer	107°C

Synthesis Procedure:

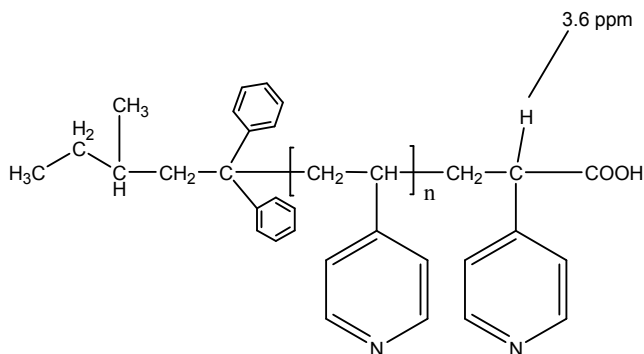
Carboxy terminated poly (4-vinyl pyridine) was prepared by living anionic polymerization of 4-vinyl pyridine in THF followed by termination with dried CO_2 .

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Thermal analysis:

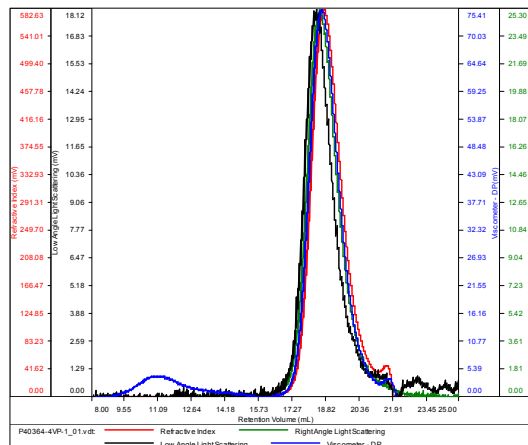
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.



SEC elugram of Sample:

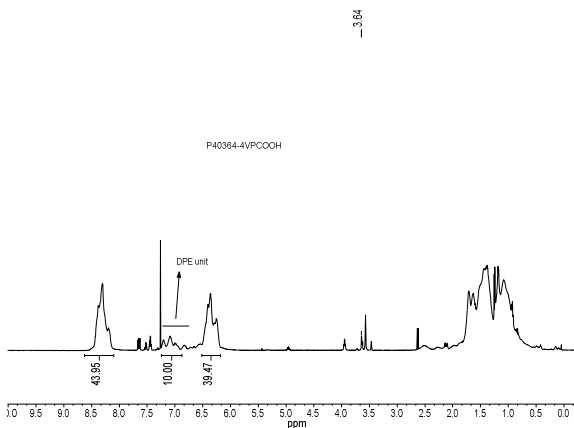
P40364-4VPCOOH Before terminating with CO_2

Conc (mg/mL)	39.4346
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
P40364-4VP-1_01.vdt	5,991	6,247	6,073	1.043	0.0349

1H NMR of the Polymer:



DSC thermogram for the sample:

