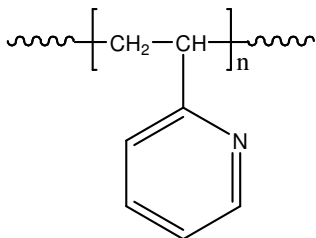


Sample Name: Poly(2-vinyl pyridine)

Sample #: P5753-2VP

Structure:



Composition:

| | |
|-------------------|-----|
| $M_n \times 10^3$ | PDI |
| 900.0 | 1.5 |

| | |
|---|------|
| Glass transition temperature (T_g): | 95°C |
|---|------|

Synthesis Procedure:

Poly(2-vinyl pyridine) was synthesized by free radical process

Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

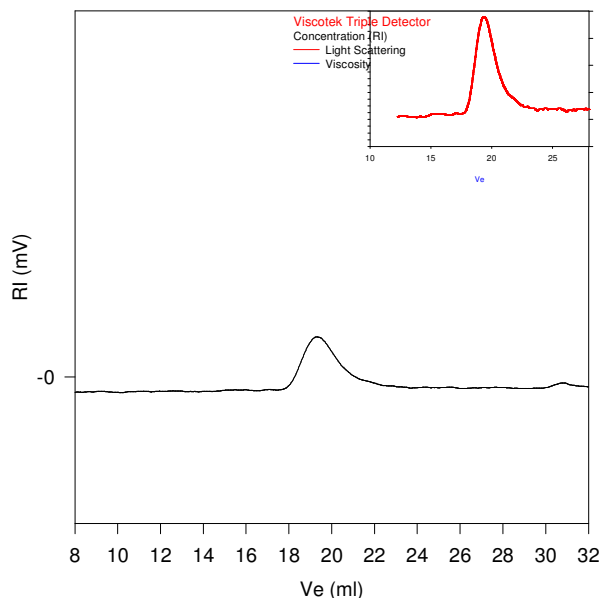
Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T_g) of the polymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

Solubility:

Poly 2 vinylpyridine is soluble in DMF, THF, toluene, methanol, ethanol and $CHCl_3$. It precipitates from water and hexane and ether.

SEC elugram of the polymer:

P5753-2VP



Size Exclusion Chromatography of Poly lactide (L form)

— $M_n = 900,000$ $M_w = 1,350,000$ $M_w/M_n = 1.5$
Solution Viscosity in THF at 35 °C: 2.69dl/g
 dn/dc in THF at 35 °C: 0.167 ml/g
 R_{gw} : 51.88nm

DSC thermogram (2nd heating scan, 10°C/min):

