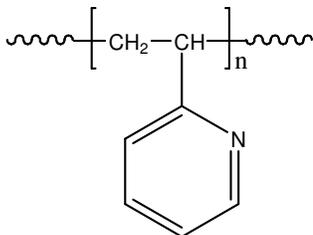


**Sample Name:** Poly(2-vinyl pyridine)

**Sample #:** P5753-2VP

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
900.0	1.5

Glass transition temperature (T <sub>g</sub> ):	95°C
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**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.

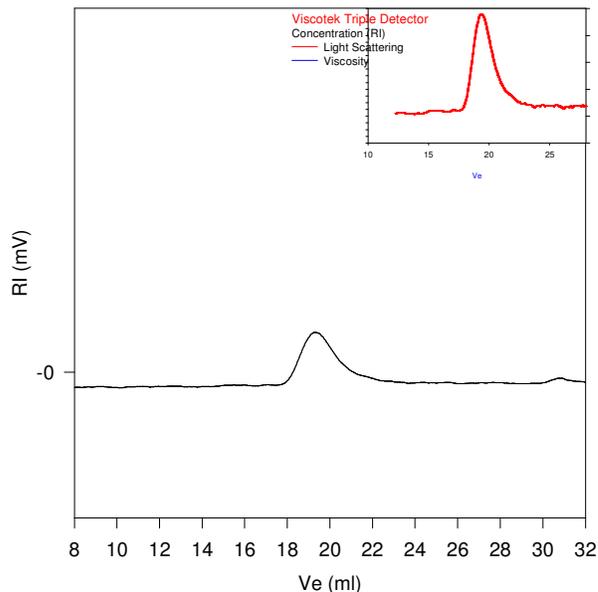
Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T<sub>g</sub>) of the polymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

**Solubility:**

Poly 2 vinylpyridine is soluble in DMF, THF, toluene, methanol, ethanol and CHCl<sub>3</sub>. It precipitates from water and hexane and ether.

**SEC elugram of the polymer:**

**P5753-2VP**



Size Exclusion Chromatography of Poly lactide (L form)

— M<sub>n</sub> = 900,000 M<sub>w</sub> = 1,350,000, M<sub>w</sub>/M<sub>n</sub> = 1.5  
Solution Viscosity in THF at 35 oC: 2.69dl/g  
dn/dcin THF at 35 oC: 0.167 ml/g  
R<sub>g</sub>w: 51.88nm

**DSC thermogram (2<sup>nd</sup> heating scan, 10°C/min):**

