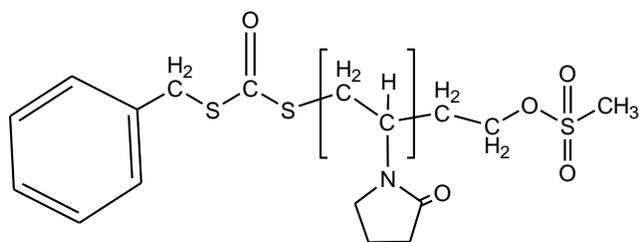


**Sample Name:**

**Mesylate terminated poly(N-vinylpyrrolidone)**

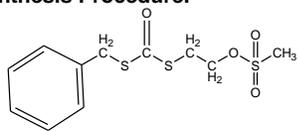
**Sample #: P18235-NVP-Mesylate**

**Structure:**

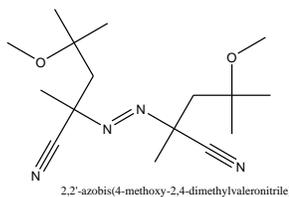
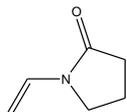


Mn x 10 <sup>3</sup>	PDI
11.0	1.2

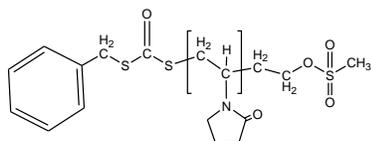
**Synthesis Procedure:**



C<sub>11</sub>H<sub>14</sub>O<sub>4</sub>S<sub>3</sub>  
Exact Mass: 306.0  
Mol. Wt.: 306.4  
C, 43.12; H, 4.61; O, 20.89; S, 31.39



Exact Mass: 308.2  
Mol. Wt.: 308.4  
C, 62.31; H, 9.15; N, 18.17; O, 10.38



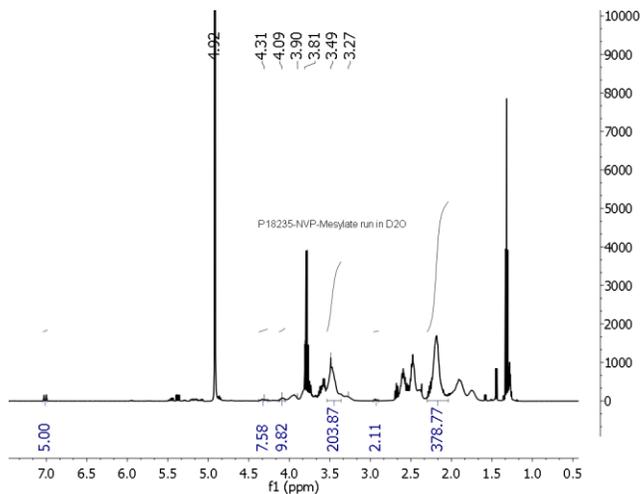
**Characterization:**

The molecular weight and polydispersity was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector in DMF containing 0.01M LiBr salt.

**Solubility:**

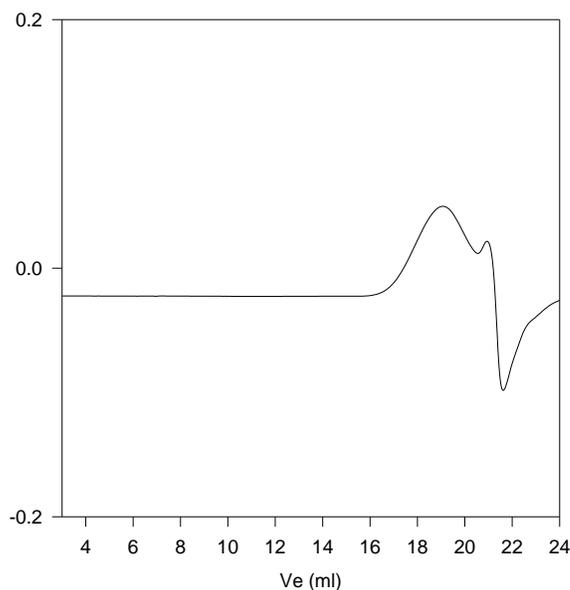
Polymer is soluble in chloroform, THF, DMF, ethanol and water, and precipitate out from hexanes and ether.

**NMR of Sample:**



**SEC of Sample:**

**P18235-NVP-Mesylate**



Size exclusion chromatography in DMF at 40 °C:  
Eluent containing 0.01 M LiBr

— Hydroxyl ended poly(N-vinylpyrrolidone),  
M<sub>n</sub>=11,000, M<sub>w</sub>=13,200, PI=1.2. (SEC polystyrene standard)