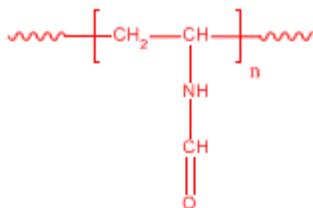


Sample Name:  
**Poly(N-vinyl formamide)**

Sample #: **P6365-NVF**

Structure:

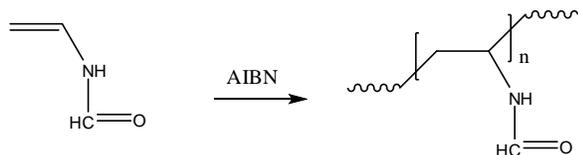


Composition:

$M_n \times 10^3$	PDI
9.6	1.88

Synthesis Procedure:

Polymer is obtained by free radical polymerization using AIBN as free radical initiator.



Characterization:

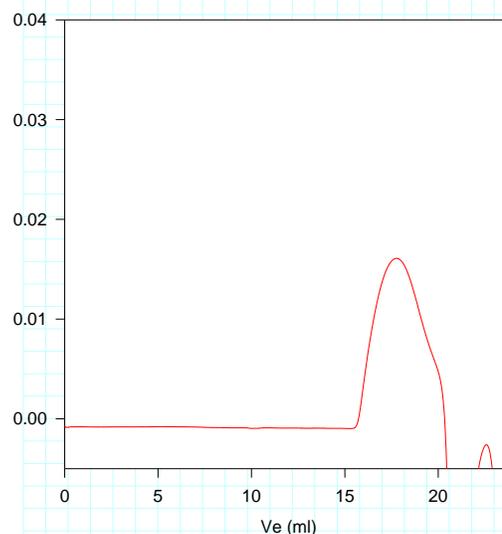
The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in water with 0.1M NaCl and 0.15 wt% of trifluoroacetic acid. The columns were calibrated with poly(ethylene glycol) standards.

Solubility:

Polymer is soluble in water, and precipitated out from hexane, ether, acetone, even pure methanol.

SEC of Homopolymer:

**P6365-NVF**



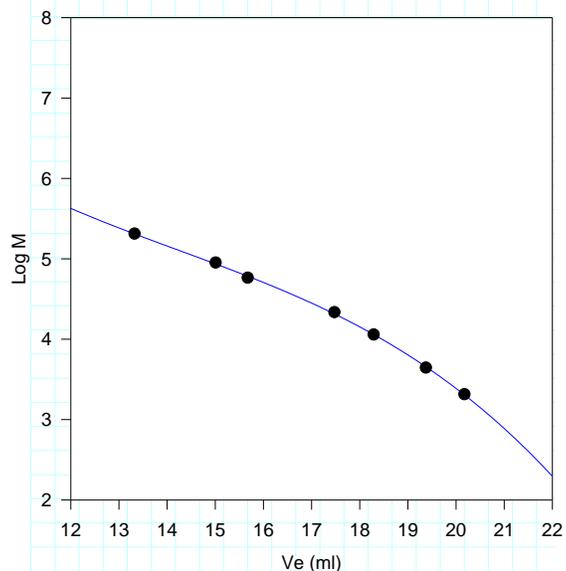
Size exclusion chromatography of poly(N-vinyl formamide)

(with respect to poly(ethylene glycol) standards; Eluent: water with 0.1M NaCl)

$M_w=9600$ ;  $M_n=18100$ ;  $M_w/M_n= 1.88$

Calibration with PEGs

**Calibration Curve-H2O  
(0.1M NaCl + 0.15%TFA)  
Aug-04-2006**



Calibration of SEC columns with poly(ethylene oxide) standards

Coefficients:  
 $b[0]=15.1316149127$   
 $b[1]=-1.6695004384$   
 $b[2]=0.1016326483$   
 $b[3]=-2.3758487393e-3$   
 $r^2=0.9995985048$