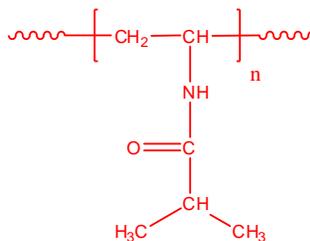


Sample Name:
Poly(N-vinyl isobutyramide)

Sample #: P9809-NVIBA

Structure:

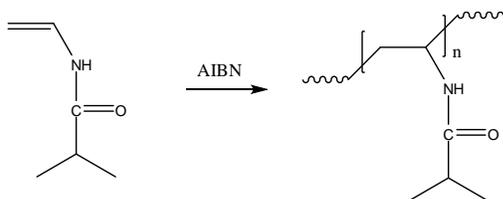


Composition:

$M_w \times 10^3$	PDI
(Mn)	
21.0	3.0
(7.0)	

Synthesis Procedure:

The monomer of N-vinyl isobutyramide was synthesized according to literature, and purified by recrystallization from hexanes. Polymer is obtained by free radical polymerization using AIBN as free radical initiator.



Characterization:

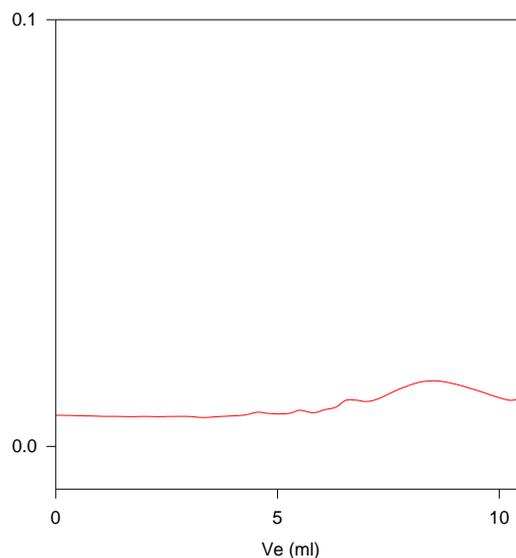
The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in DMF. The columns were calibrated with polystyrene standards.

Solubility:

Polymer is soluble in water (<math> < 38^\circ\text{C}</math>), acetone, methanol and precipitated out from hexane, ether.

SEC of Homopolymer:

P9809-NVIBA



Size exclusion chromatography of poly(N-vinyl isobutyramide)
(with respect to polystyrene standards; Eluent: DMF)
 $M_w=21000$; $M_n=7,000$; $M_w/M_n=3,0$

NMR spectrum of the polymer in D₂O:

