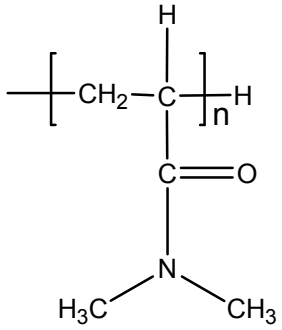
Sample Name:
Poly(N-N-dimethylacrylamide)

Sample #: P9104-DMA

Synthesis by GTP polymerization

Structure:



Composition:

Mn x 10^3	PDI
190.0	1.7
T_g (^{o}C)	116

Synthesis Procedure:
The polymer is synthesized by GTP polymerization.

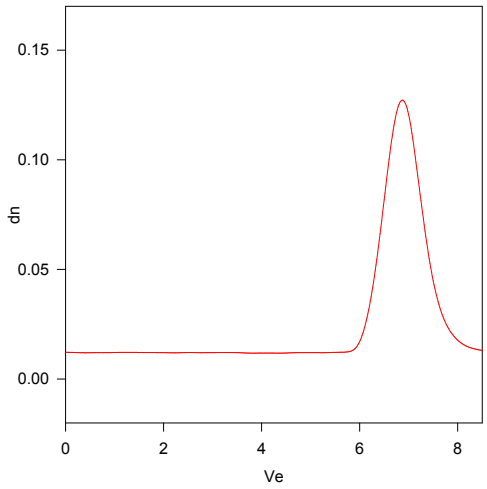
Characterization:
The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography

Thermal analysis:
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^{o}C/min.The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:
Polymer is soluble in methanol, ethanol and water, precipitated in hexane.

SEC of Homopolymer:

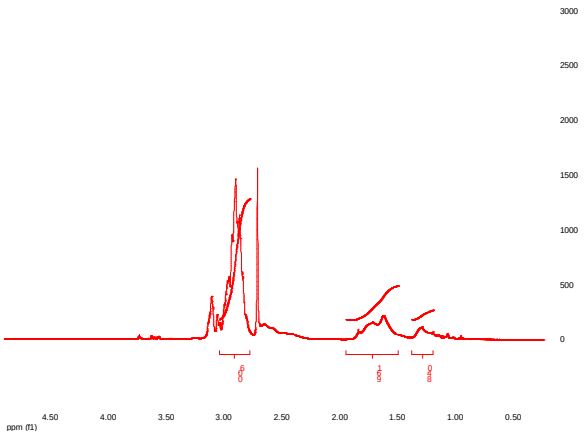
P9104-DMA



Size Exclusion Chromatography of Poly(N,N-dimethyl acrylamide)
Eluent: DMF with 0.01N LiBr

M_n=190000, M_w=323000, M_w/M_n=1.7

HMR of the Polymer:



DSC thermogram for the polymer: