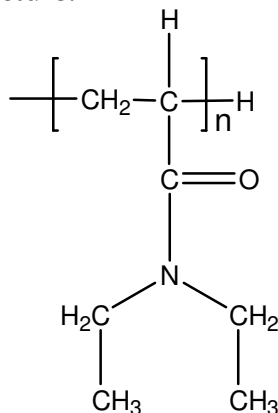


Sample Name:

Poly(N-N-diethylacrylamide)

Sample #: P9639A-DEAMD**Synthesis by GTP polymerization****Structure:****Composition:**

Mn x 10 ³ w.r.t Polystyrene	PDI
182.0	1.3
Mw x 10 ³ 236.0	1.3
T _g (°C)	85
Viscosity in Methanol at 25 °C: [η] = 80ml/g	Mv:242000

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°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).

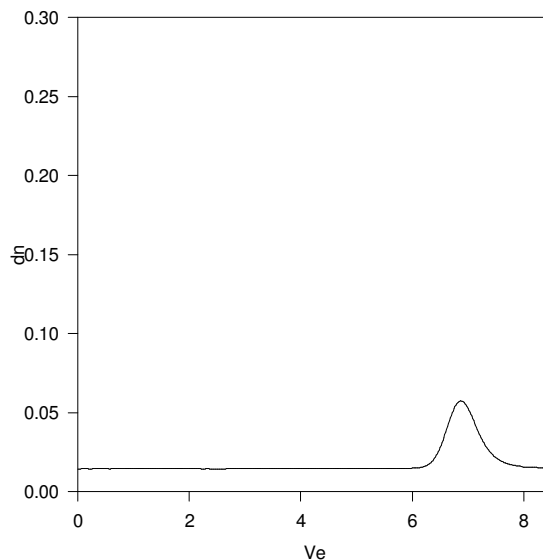
Solution viscosity :

Intrinsic viscosity was determined in methanol at 25 °C using ubbelohde viscometer. The molecular weight is calculated based on the following equation in Methanol at 25 °C:

$$[\eta] = 0.0175 \times M_v^{0.68}$$

Solubility:

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

SEC of Homopolymer:**P9639A-DEAMD**

Size Exclusion Chromatography of Poly(N,N-diethyl acrylamide)

M_n=182,000, M_w=236,000, PI=1.3**DSC thermogram for the polymer:**