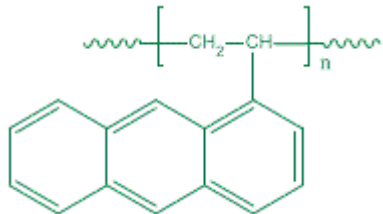


Sample Name: Poly(1-vinyl anthracene)

Sample #: P6395-1VAn

Structure:



Composition:

$M_n \times 10^3$	PDI
6.7	1.44
$T_g (^{\circ}C)$	261

Synthesis Procedure:

Poly(1-vinyl anthracene) is synthesized by anionic living polymerization 1-vinyl anthracene.

Characterization:

The molecular weight and polydispersity index (PDI) of Poly(1-vinylanthracene) are obtained by size exclusion chromatography.

Thermal analysis:

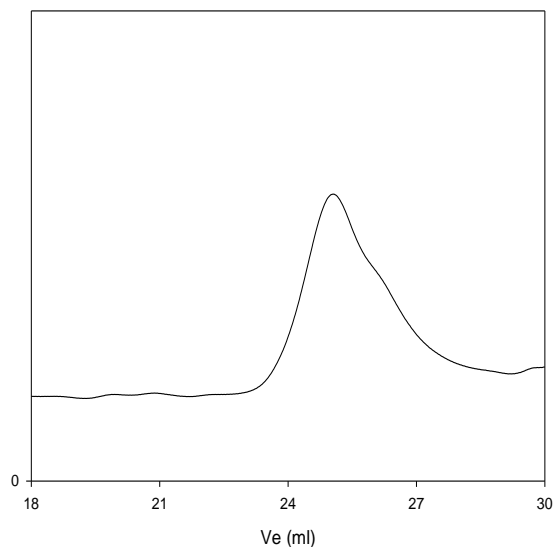
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of $10^{\circ}C/min$. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Polymer is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

P6395-1VAn



Size exclusion chromatogram of poly (1-vinyl anthracene);
 $M_n = 6700$; PDI = 1.44; $M_w = 9700$

DSC thermogram for the polymer:

