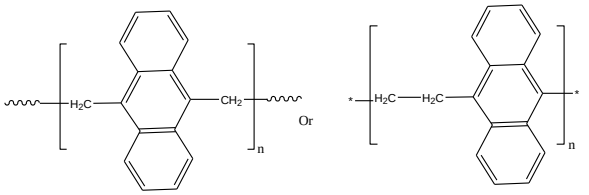
Sample Name: **Poly(9-vinyl anthracene)**

Sample #: **P6392-9VAN**

Structure:



Composition:

Mn x 10^3	PDI
1.2	1.8
T_g (^oC)	113

Synthesis Procedure:
Poly(9-vinyl anthracene) is synthesized by cationic living polymerization 9-vinyl anthracene as reported in J. Polym. Sci Part A 2533, 1964 by Michel.

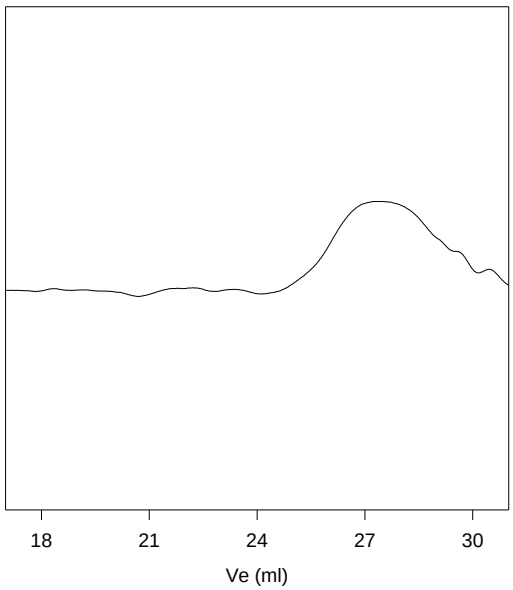
Characterization:
The molecular weight and polydispersity index (PDI) of Poly(9-vinylanthracene) are obtained by size exclusion chromatography.

Thermal analysis:
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^oC/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:

P6392-9VAn



Size Exclusion Chromatography of Poly(9-Vinylanthracene)

M_n=1200, M_w=2200, PI=1.8

DSC thermogram for the polymer: