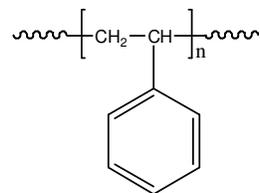


Sample Name: Polystyrene

Sample #: P4092-S

**Structure:**

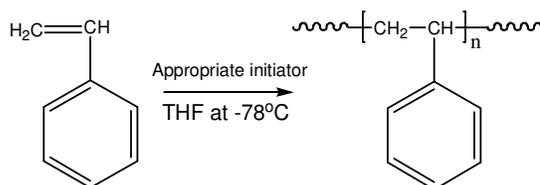


**Composition:**

$M_n \times 10^3$	PDI
298.0	1.15

**Synthesis Procedure:**

Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:



**Characterization:**

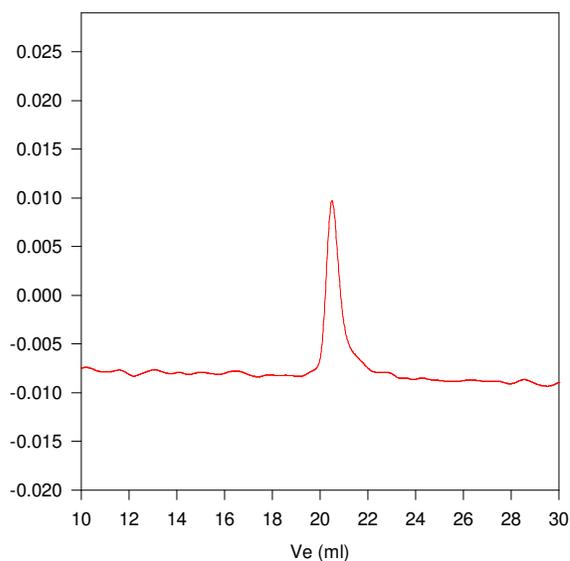
The molecular weight and polydispersity index (PDI) were obtained by size exclusion chromatography.

Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of  $10^\circ C/min$ . The inflection glass transition temperature ( $T_g$ ) has been considered.

**Solubility:**

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

**SEC of Polystyrene Sample # P4092-S:**  
**P4092-S**



Size exclusion chromatograph of polystyrene:

$M_n=298000$   $M_w=342000$   $PI=1.15$

