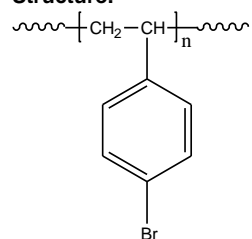


## Sample Name: Poly(4-bromo styrene)

Sample #: **P6039-4BrS**

### **Structure:**

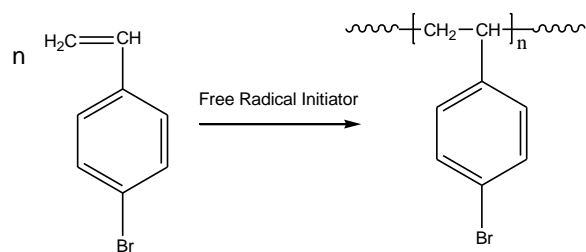


### **Composition:**

$M_n \times 10^3$	PDI
11.7	1.11

### **Synthesis Procedure:**

Poly(4-bromo styrene) is synthesized by free radical polymerization of 4-bromo styrene and the reaction scheme is shown below.



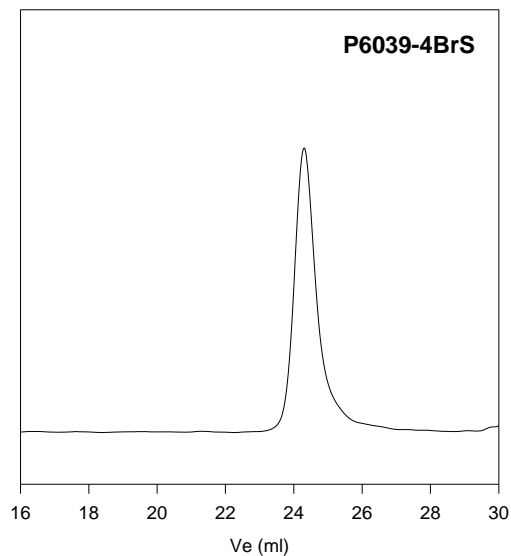
### **Characterization:**

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

### **Solubility:**

Poly(4-bromo styrene) is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes.

### SEC of Homopolymer:



Size exclusion chromatograph of poly4 bromostyrene:

$M_n=11700$ ,  $M_w=13000$ ,  $PI=1.11$