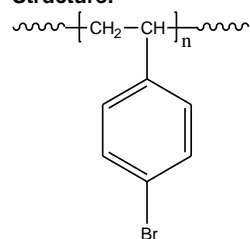


**Sample Name: Poly(4-bromo styrene)**

**Sample #: P6035-4BrS**

**Structure:**

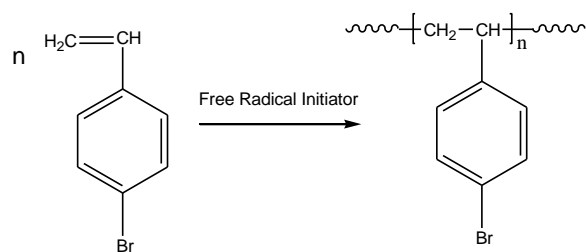


**Composition:**

|                   |      |
|-------------------|------|
| $M_n \times 10^3$ | PDI  |
| 5.6               | 1.20 |

**Synthesis Procedure:**

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



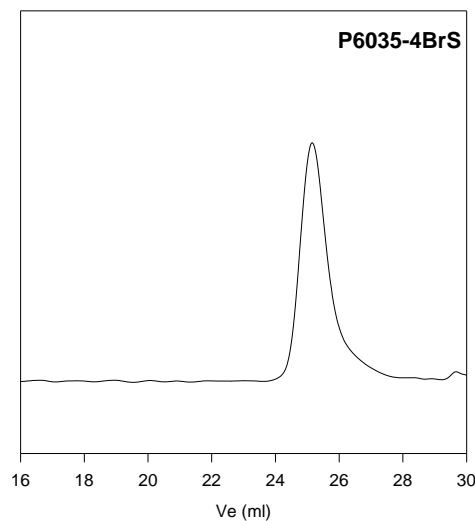
**Characterization:**

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  $CHCl_3$ . It precipitates from methanol, ethanol, water and hexanes.

**SEC of Homopolymer:**



Size exclusion chromatograph of poly4 bromostyrene:

$M_n=5600$ ,  $M_w=6700$ ,  $PI=1.20$