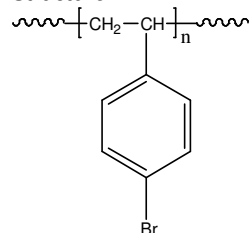


## Sample Name: Poly(4-bromo styrene)

Sample #: P1328-4BrS

### Structure:

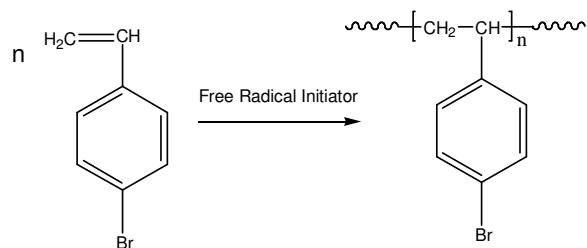


### Composition:

$M_n \times 10^3$	PDI
11.3	1.15

### Synthesis Procedure:

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



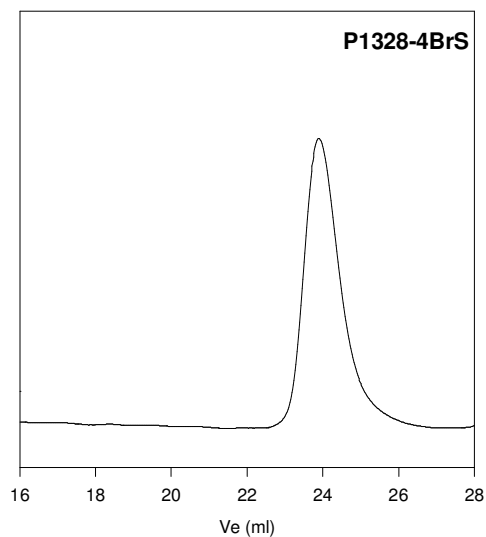
### Characterization:

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:

$$M_n=11300, M_w=13000, PI=1.15$$