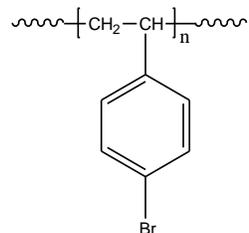


## Sample Name: Poly(4-bromo styrene)

Sample #: P5849-4BrS

Structure:

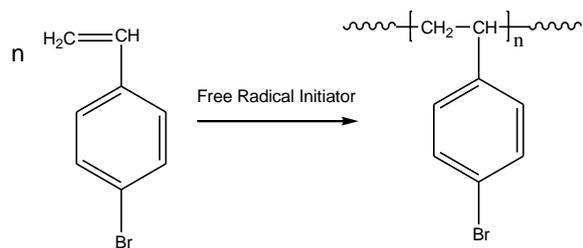


Composition:

$M_n \times 10^3$	PDI
10.0	1.25

Synthesis Procedure:

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



Characterization:

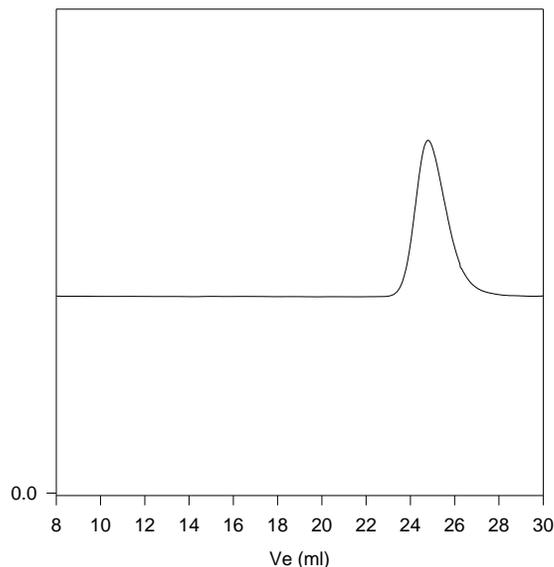
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

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:

P5849-4BrS



Size Exclusion Chromatogram of poly 4-bromo styrene:

—  $M_n=10,000$ ,  $M_w=12,500$ ,  $M_w/M_n=1.25$