

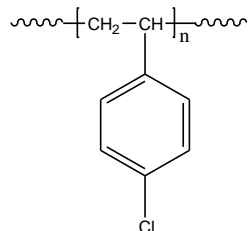
**Sample Name:** Poly(4-chloro styrene)

**SEC of Homopolymer:**

**P8218-4CIS**

**Sample #:** P8218-4CIS

**Structure:**

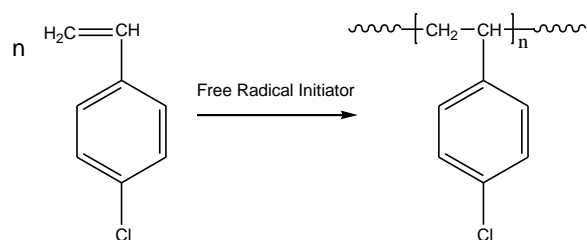


**Composition:**

$M_n \times 10^3$	PDI
38.0	1.3

**Synthesis Procedure:**

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

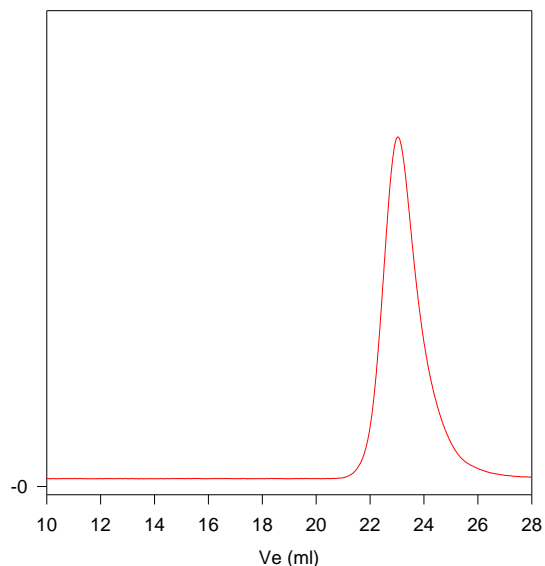


**Characterization:**

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

**Solubility:**

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



Size Exclusion Chromatograph of Poly(4-Chlorostyrene)

$M_n=38000$ ,  $M_w=49000$ ,  $M_w/M_n=1.3$