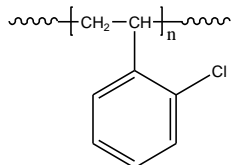


## Sample Name: Poly(2-chloro styrene)

Sample #: **P6664-2CIS**

### **Structure:**

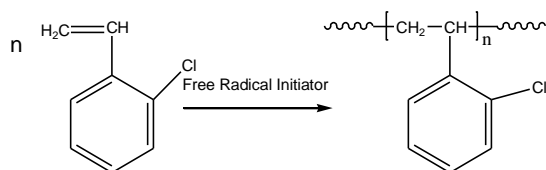


### **Composition:**

$M_n \times 10^3$	PDI
19.2	1.32

### **Synthesis Procedure:**

Poly(2-chloro styrene) is synthesized by controlled radical polymerization of 2-chloro styrene and the reaction scheme is shown below.



### **Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

### **Solubility:**

Poly(2-chloro styrene) is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes.

### SEC of Homopolymer:

