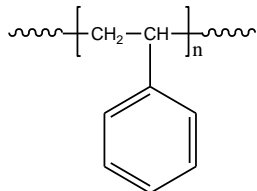


Sample Name: Polystyrene, broad distribution

Sample ID #: P42533-S

CAS registry number: 9003-53-6

Structure:

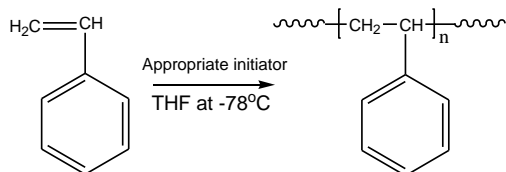


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
210.0	1.5

Synthesis Procedure:

Polystyrene was obtained by living anionic polymerization of styrene. The scheme of reaction is presented below.



Characterization:

The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC) in THF at 30°C . SEC analysis was performed on Agilent Technologies 1260 Infinity II GPC/SEC system equipped with triple detector and three columns.

Solubility:

Polystyrene is soluble in chloroform, tetrahydrofuran (THF), dimethylformamide (DMF), and toluene. The product precipitates from methanol, ethanol, water, and hexanes.

SEC chromatogram of the polymer in THF:

