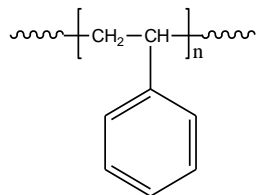


Sample Name: Polystyrene

Sample#: P43200-S

**Structure:**



**Composition:**

$M_n \times 10^3 \text{ (g/mol)}$	$M_w/M_n$
145.0	1.01

CAS registry number: 9003-53-6

**Synthesis Procedure:**

Polystyrene was obtained by living anionic polymerization of styrene using lithium Naphthalene initiator.

**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 elugram of the polymer in THF:**

