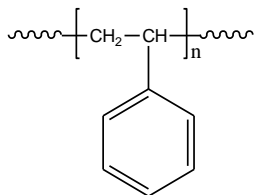


Sample Name: Polystyrene

Sample#: P43206-S

Structure:



Composition:

| | |
|---------------------------|-----------|
| $M_n \times 10^3$ (g/mol) | M_w/M_n |
| 201.0 | 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:

