



Product Profile

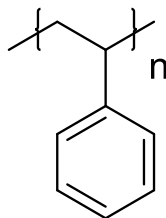
Identification

Product Name: Poly(styrene)

Product Lot Number: P45148-S

CAS #: 9003-53-6

Product Chemical Architecture:



Composition:

Mn (g/mole)	1,534,000
Mw (g/mole)	1,584,000
Mw/Mn	1.03
dn/dc (mL/g) in THF at 30 °C	0.185

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

Solubility in different solvents:

THF	√	DMF	√
Alcohol	X	CHCl₃	√
Toluene	√	Water	X

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10⁵-10⁶Å). THF (stabilized BHT) with 1% (v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.

