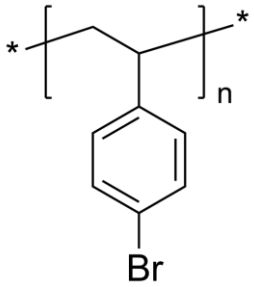
Sample Name: **Poly(4-Bromostyrene)**

Sample #: **P43481-4BrS**

Structure:



Composition:

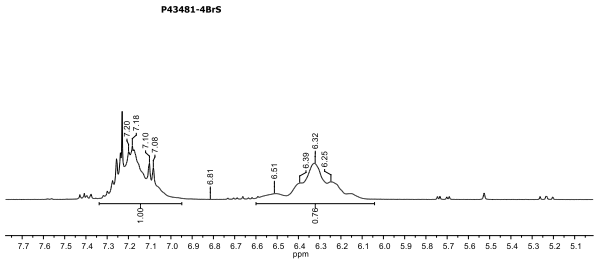
Mn × 10^3	PDI
131.0	1.7

Synthesis Procedure:
Poly 4-Bromostyrene is obtained by anionic polymerization process using tBuok as additive and Monomer diluted with toluene 5:5.

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.
Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T_g) of the product was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

Solubility:
Polymer is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water, and hexanes.

HNMR spectrum of the polymer:



SEC elugram of the Sample: