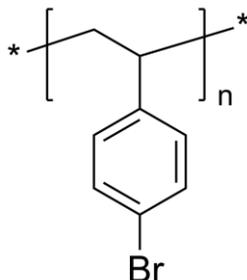


Sample Name: Poly(4-Bromostyrene)

Sample #: P43481A-4BrS

Structure:



Composition:

$M_n \times 10^3$	PDI
71.0	1.4

Synthesis Procedure:

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

Characterization:

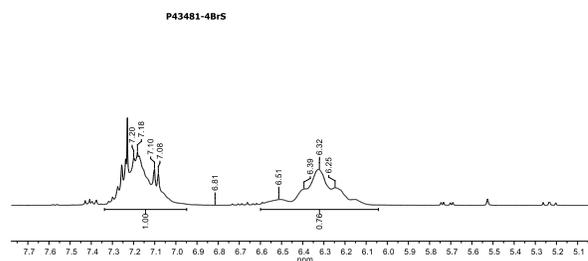
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple 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.

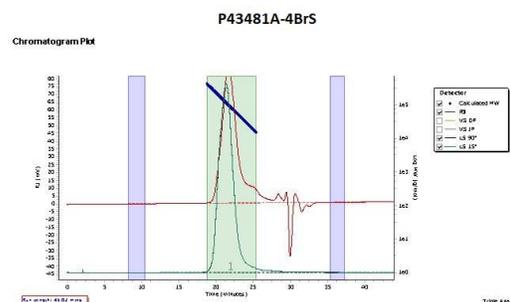
Solubility:

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:



Peak	Mp (g/mol)	Min (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak1	100000	71941	88304	125417	150273	121915	1.398