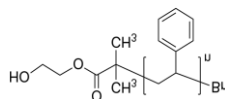


Sample Name:

**$\alpha$ -Hydroxy- $\omega$ -Bromo Terminated Polystyrene**

Sample # **P20189-OH-S-Br**

**Structure:**

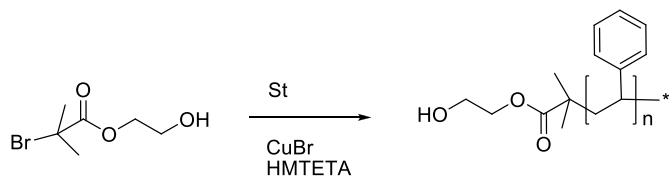


**Composition:**

$M_n \times 10^3$	$M_w/M_n$
19.2	1.13

**Synthetic Procedure:**

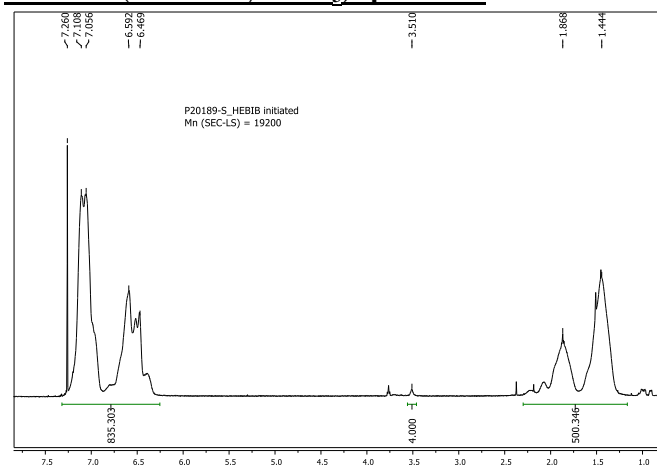
The following reaction scheme shows how the product was prepared:



**Characterization:**

The molecular weight characterization was performed by size exclusion chromatography (SEC) using refractive index and light-scattering detectors. Quantitative functionality is indicated by  $^1\text{H}$  NMR.

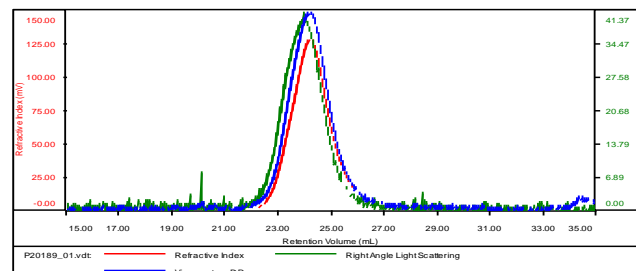
**$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum:**



**SEC elugram:**

Sample ID-P20189-SOH

Concentration (mg/mL)	1.1410
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P20189_01.vdt	19,160	21,688	19,278	1.132	0.0000