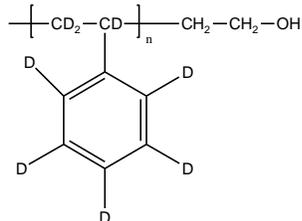


Sample Name:

**$\omega$ -Hydroxy Terminated Deuterated Polystyrene**

Sample #: P18187-dPSOH

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
6.8	1.04

**Synthesis Procedure:**

$\omega$ -Hydroxy Terminated deuterated polystyrene was prepared by living anionic polymerization of deuterated styrene using a monofunctional initiator such as Sec. butyl lithium in THF at -78 oC followed by termination with ethylene oxide.

**Characterization:**

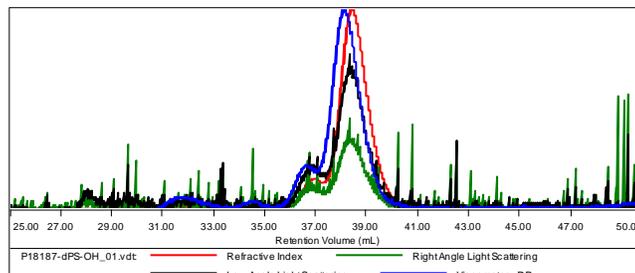
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:** Polymer is soluble in toluene, THF,  $CHCl_3$  and can be precipitated in water, cold methanol.

**SEC of Sample:**

**Sample ID: P18187**

Concentration (mg/mL)	9.7541
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Sep19-2013-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	$M_n$	$M_w$	$M_p$	$M_w/M_n$	IV
P18187-dPS-OH_01.vdt	6,847	7,080	6,755	1.034	0.1193

