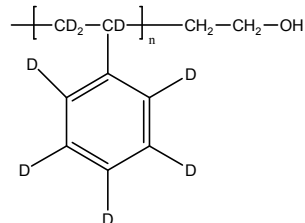


Sample Name:

ω -terminated deuterated Hydroxy Terminated Polystyrene

Sample #: **P8053-dPSOH**

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 14.0 | 1.05 |

Synthesis Procedure:

ω -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 °C followed by termination with ethylene oxide.

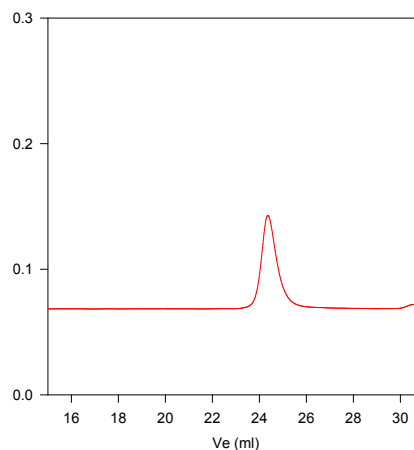
Characterization:

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, CHCl₃ and can be precipitated in water and cold methanol.

SEC of Sample:

P8053-dPSOH



Size exclusion chromatography of ω hydroxy Terminated deuterated (d8) polystyrene
M_n=14000, M_w=14700, PI=1.05, functionality>99%