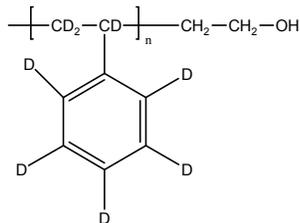


Sample Name:

ω -Hydroxy Terminated Deuterated Polystyrene

Sample #: P10718-dPSOH

Structure:



Composition:

$M_n \times 10^3$	PDI
4.7	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 oC followed by termination with ethylene oxide.

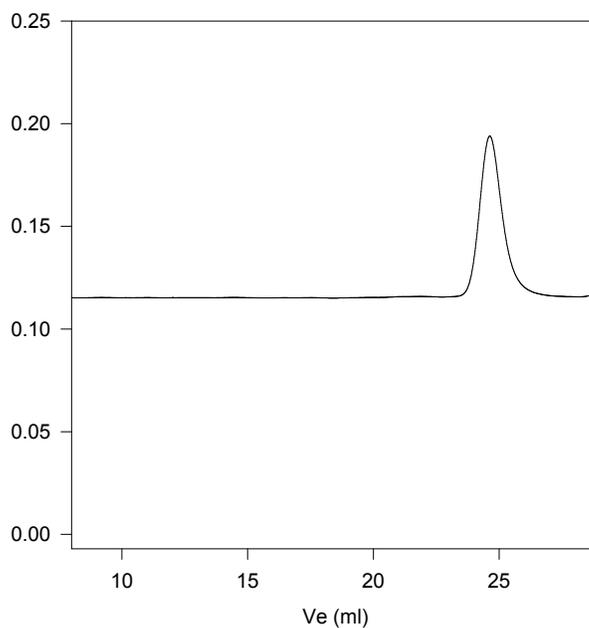
Characterization:

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:

P10718-dPSOH



Size exclusion chromatography of Polymer:

— Poly(styrene), $M_n=4,700$, $M_w=5,000$, $PI=1.05$