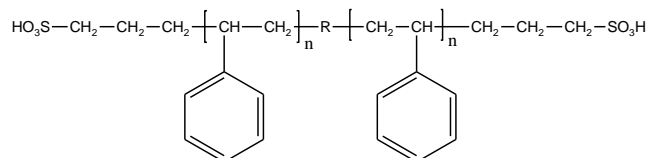


Sample Name: α,ω -Bis sulfonic acid Terminated Polystyrene

Synonym: Disulfonyl-terminated polystyrene

Sample #: P1605-S2SO3H

Structure:

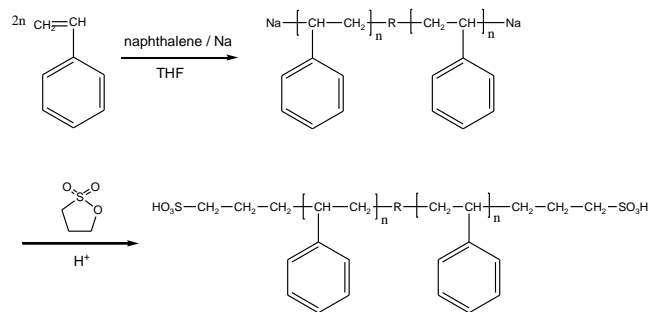


Composition:

$M_n \times 10^3$	PDI
190.7	1.12

Synthesis Procedure:

α,ω -Disulfonyl acid terminated polystyrene was prepared by living anionic polymerization of styrene using a bifunctional initiator in THF followed by termination with dried propansultone. The scheme of the reaction is illustrated below:

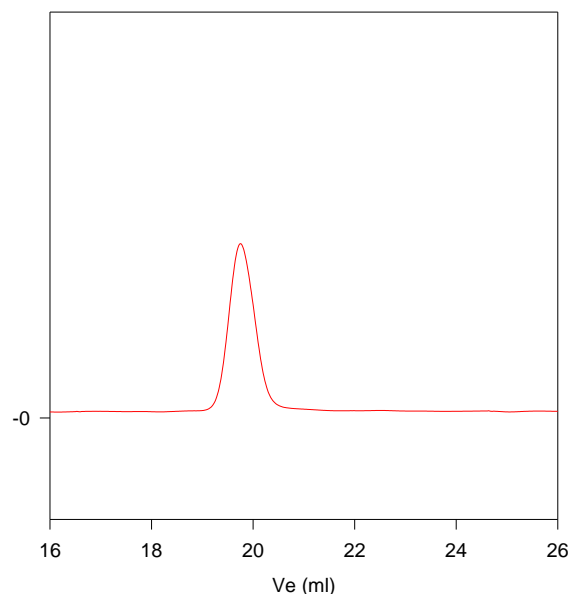


Characterization:

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.

SEC profile of the Sample:

P1605-S2SO3H



Size exclusion chromatograph of polystyrene before terminating with Propane sultone

$M_n=190,7000$, $M_w=213,600$, $PI=1.12$