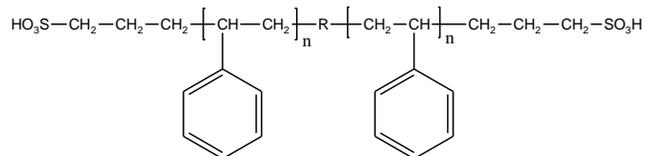


**Sample Name:**  $\alpha,\omega$ -Bis sulfonic acid Terminated Polystyrene

**Synonym:** Disulfonyl-terminated polystyrene

**Sample #:** P1605-S2SO3H

**Structure:**

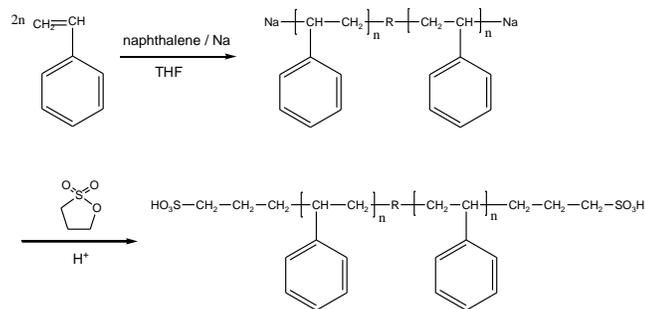


**Composition:**

$M_n \times 10^3$	PDI
190.7	1.12

**Synthesis Procedure:**

$\alpha,\omega$ -Disulfonic 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:

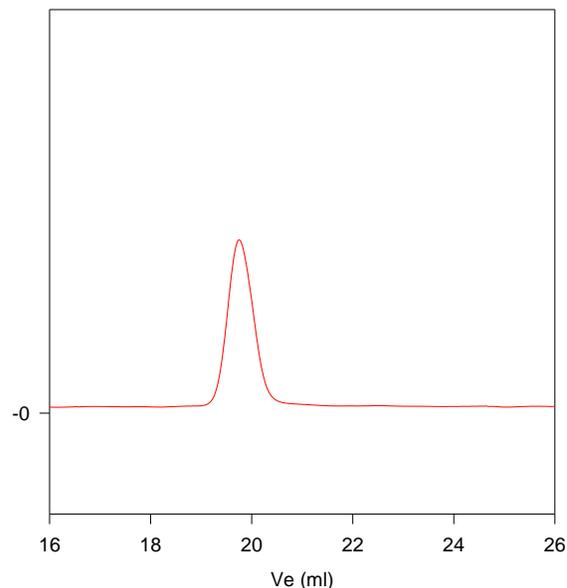


**Characterization:**

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

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