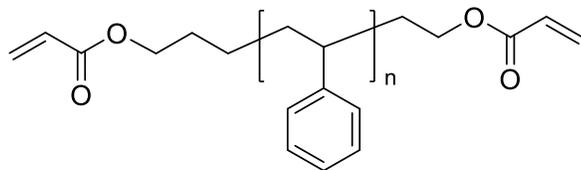


**Product Name:** **$\alpha,\omega$ -Bis(acrylate)-terminated Polystyrene****Product # P42678A-S2acrylate****Structure:****Composition:**

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
4.5	1.07

**Synthesis Procedure:**

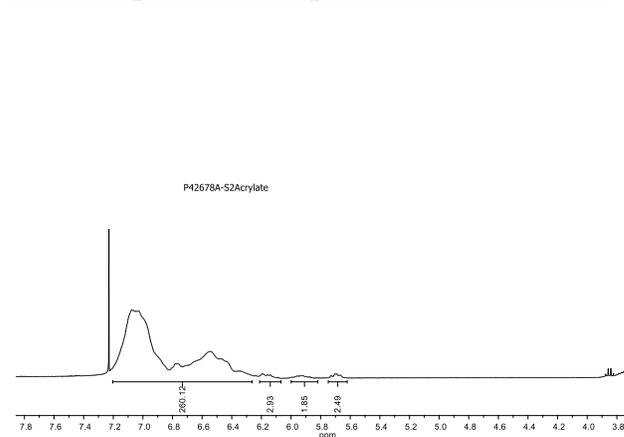
$\alpha,\omega$ -Bis(hydroxy)-terminated polystyrene was prepared by living anionic polymerization of styrene using bifunctional initiator, and the following termination of polymer with ethylene oxide. The -OH end groups were then converted to acrylic end groups.

**Characterization:**

The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC, triple detection method).

**Solubility:**

The polymer is soluble in toluene, tetrahydrofuran (THF), chloroform; but it precipitates in water and cold methanol.

 **$^1\text{H}$  NMR spectrum of the polymer in chloroform-d:****SEC chromatogram of the functional polymer:**