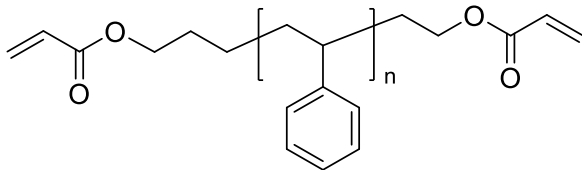


Product Name: **α,ω -Bis(acrylate)-terminated Polystyrene****Product #** P42678-S2acrylate**Structure:****Composition:**

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

Synthesis Procedure:

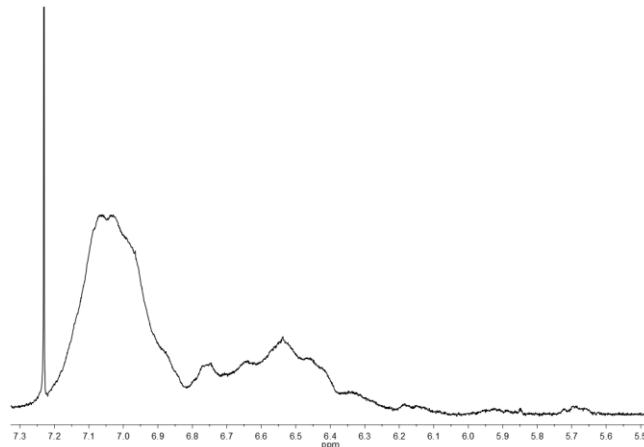
α,ω -Bis(hydroxy)-terminated polystyrene was prepared by living anionic polymerization of styrene using bifunctional initiator, and the following termination of polymer with ethylene oxide. The -OH end groups were then converted to acrylic end groups.

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.

 ^1H NMR spectrum of the polymer in chloroform- d :**SEC chromatogram of the functional polymer:**