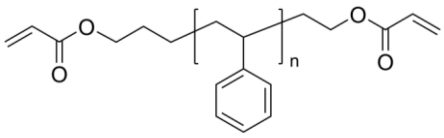
Sample Name:
Poly(styrene), α,ω-bis(acrylate)-terminated

Sample #: **P43519-S2acrylate**

Structure:

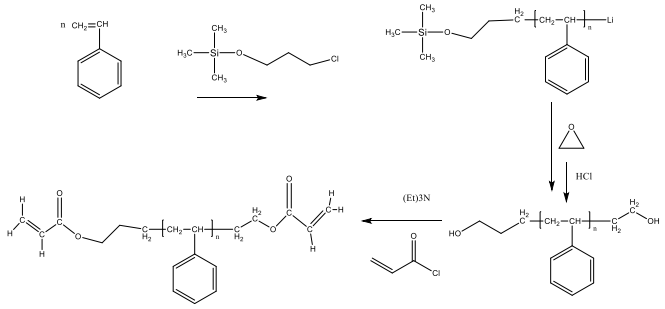


Composition:

Mw x 10^3	PDI
0.8	1.09

Synthesis Procedure:

α, ω-Hydroxy Terminated Polystyrene was prepared by living anionic polymerization of styrene using bifunctional initiator followed by terminated with ethylene oxide. The OH end groups were then converted to acrylic end groups.



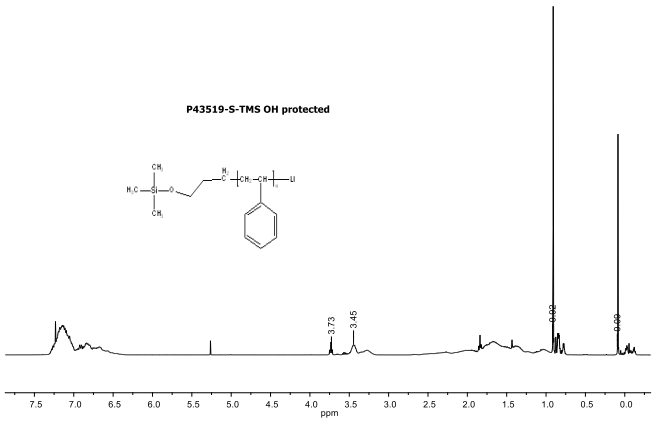
Characterization:

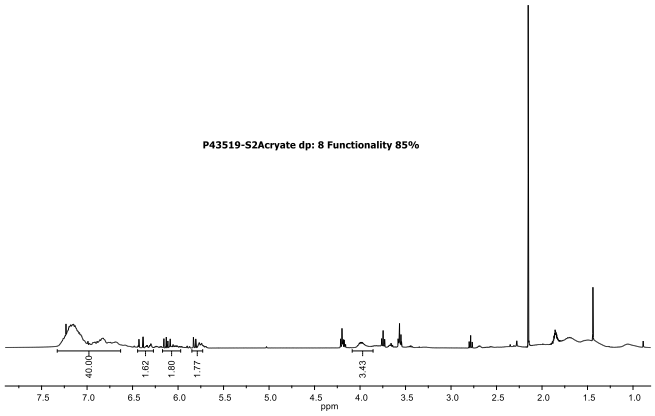
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

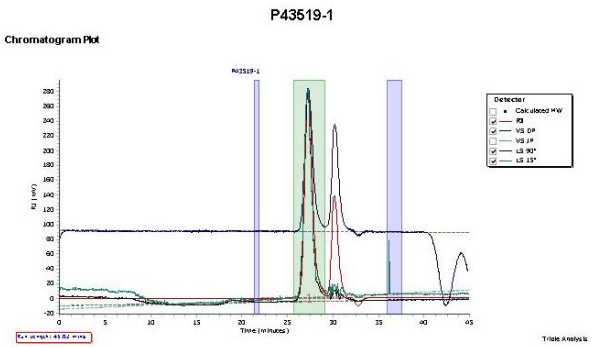
Polymer is soluble in toluene, THF, CHCl3 and can be precipitated in water and, cold methanol.

^{1}H-NMR spectrum of the Polymer:





SEC elugram of the sample:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	867	774	844	906	966	0	1.09