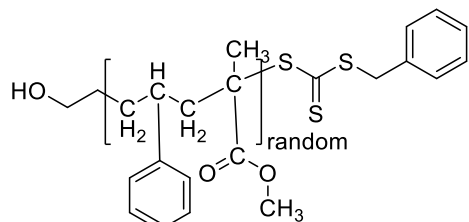


Sample Name: Poly(styrene-co-methyl methacrylate), (α -hydroxy, ω -RAFT)-terminated

Sample #: P41945-SMMAranOH

Structure:

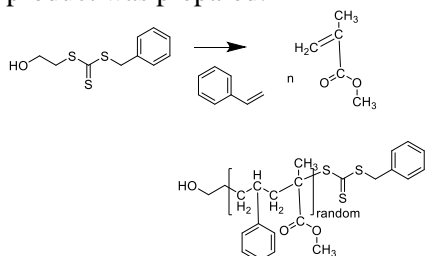


Composition:

Mn x 10 ³ PS-co-PMMA	19.0
PDI	1.4
S: MMA molar ratio	50:50

Synthesis Procedure:

The polymer is prepared by RAFT polymerization process using RAFT reagent bearing with free OH end group. The following reaction scheme shows how the product was prepared:



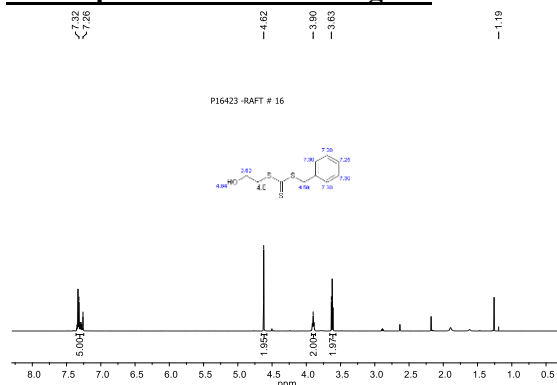
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

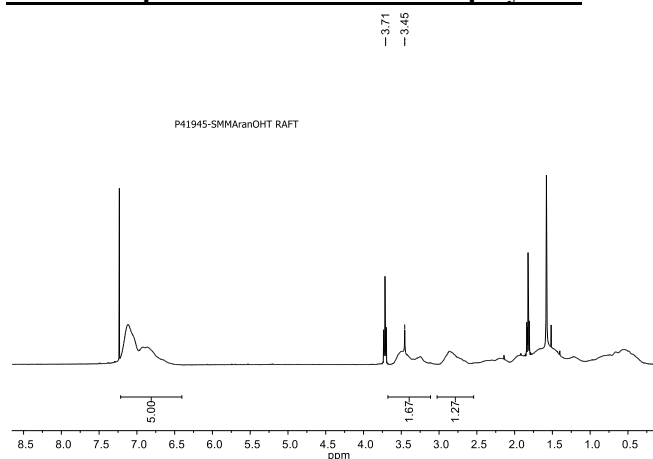
Solubility:

The polymer is soluble in CHCl₃, THF, DMF, toluene and precipitated out from hexane.

NMR spectrum of RAFT reagent:



¹H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

Agilent GPC/SEC Software

