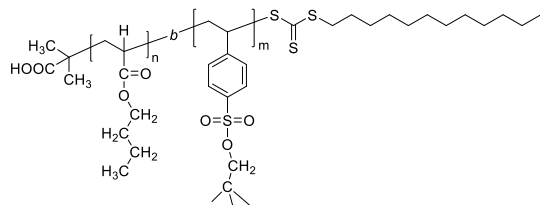


**Sample Name:** Poly (n-Butyl acrylate)-b-poly (neopentyl 4-styrene sulfonate)

**Sample #:** P16432-nBuASSO3NP

**Structure:**

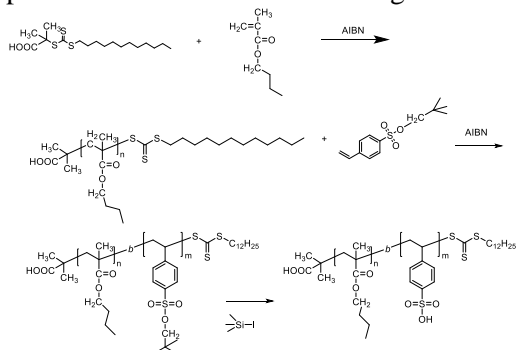


**Composition:**

Mn $\times 10^3$ PnBuA-b-PSSO3NP	PDI
9.0-b-4.0	1.15

**Synthesis Procedure:**

The polymer was synthesized by RAFT polymerization process as shown in the following reaction scheme:



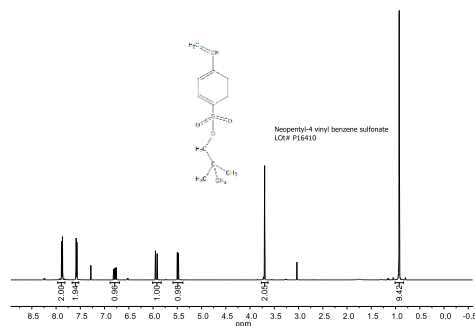
**Characterization:**

The molecular weight was calculated from  $^1\text{H}$  NMR and polydispersity of product was characterized by size exclusion chromatography (SEC).

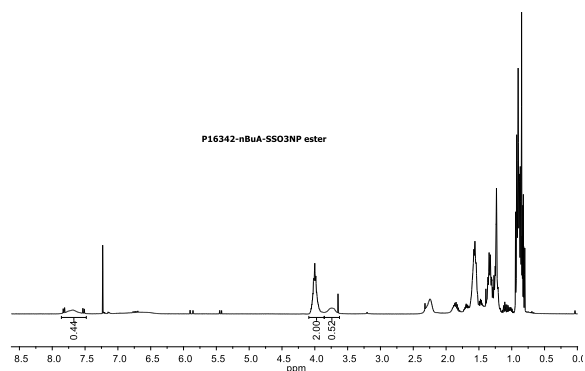
**Solubility:**

The polymer is soluble in DMSO and Acetone.

**$^1\text{H}$  NMR of neopentyl-4-styrene sulfonate (SSO3NP):**

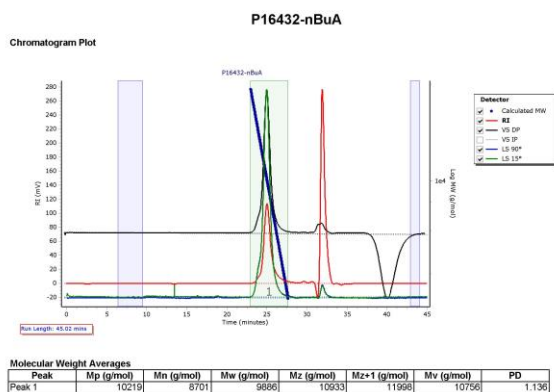


**$^1\text{H}$  NMR spectrum of the nBuA-SSO3NP diblock copolymer:**



**SEC of first block nBuA-RAFT:**

Agilent GPC/SEC Software



**SEC of nBuA-b-SSO3NP diblock copolymer:**

Agilent GPC/SEC Software

