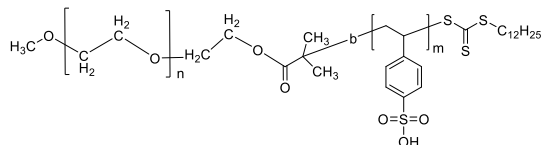


Sample Name: Poly (ethylene oxide)-b-poly (4-styrene sulfonic acid)

Sample #: P16435A-EOSSO3H

Structure:

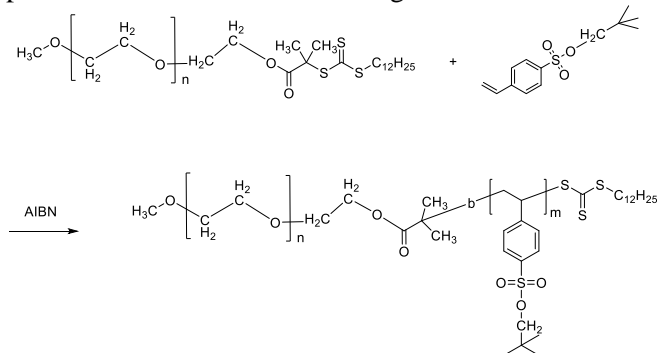


Composition:

Mn × 10 ³ PEO-b-PSSO3NP	PDI
2.0-b-9.0	1.13

Synthesis Procedure:

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



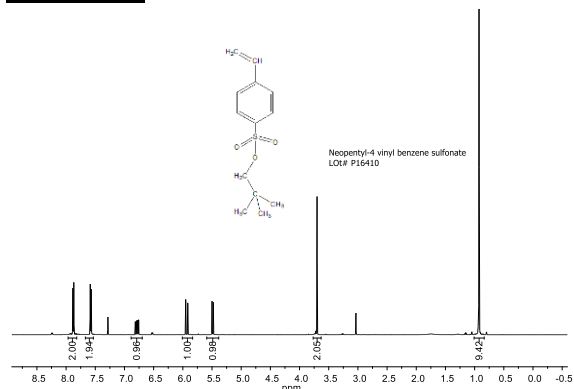
Characterization:

The molecular weight was calculated from ¹H NMR and polydispersity of product was characterized by size exclusion chromatography (SEC).

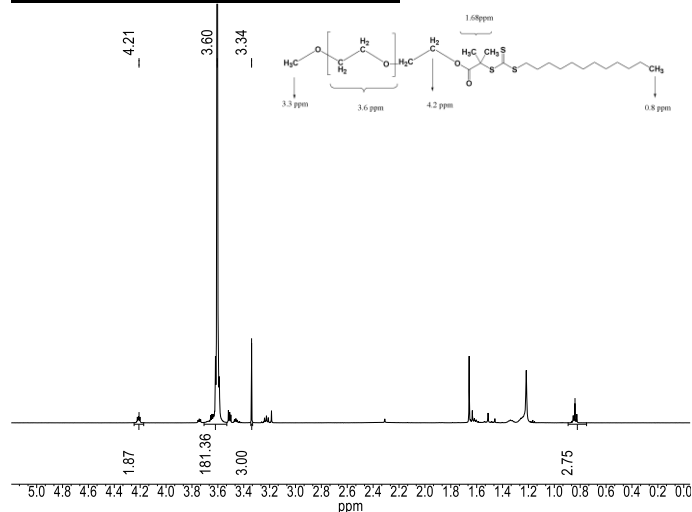
Solubility:

The polymer is soluble in acetone, chloroform, THF, DMSO, and it precipitates from hexane.

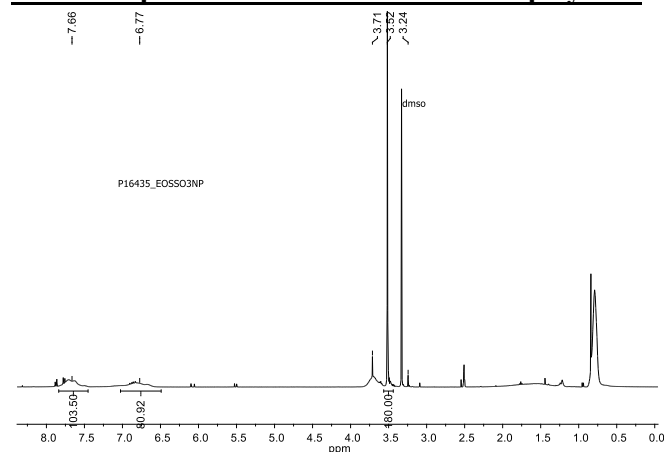
¹H NMR of neopentyl-4-styrene sulfonate (SSO3NP):



¹H NMR spectrum of the RAFT macroinitiator EO-RAFT (Mn = 2000, PDI = 1.10)



¹H NMR spectrum of the EO-SSO3NP copolymer:



SEC of diblock polymer:

Agilent GPC/SEC Software

