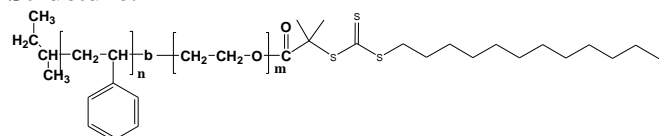


Sample Name: RAFT end functionalized Poly (styrene-b-ethylene oxide)

Sample #: P41517-SEO-RAFT

Structure:



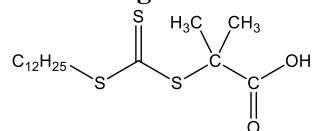
Composition:

Mn x 10 ³ S-b-EO	9.0-b-19.0
PDI	1.10
RAFT functionality by HNMR	> 98 %

Synthesis:

SEO (OH) end group esterifies with RAFT reagent.

RAFT reagent Structure:



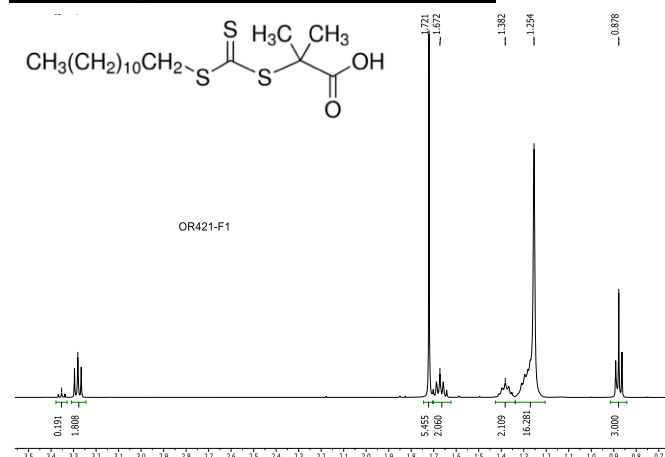
Chemical Formula: C₁₇H₃₂O₂S₃
Molecular Weight: 364.6

M.p.:	57–63°C
Storage temperature:	2–8°C
Purity:	> 95 %

RAFT reagent Characterization:

The chemical structure of the product was confirmed by ¹H NMR.

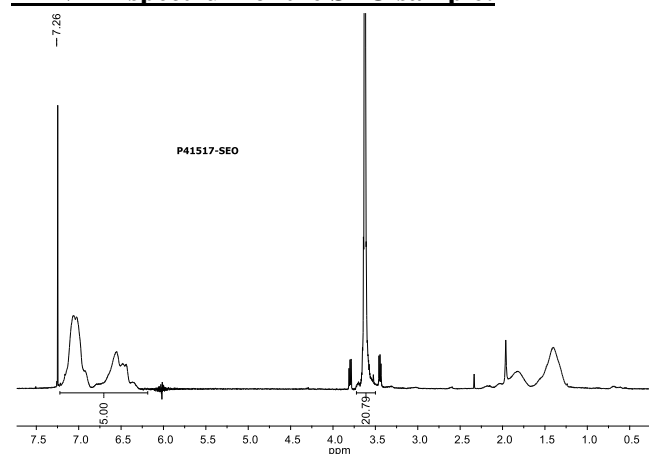
¹H NMR spectrum of the Raft reagent:



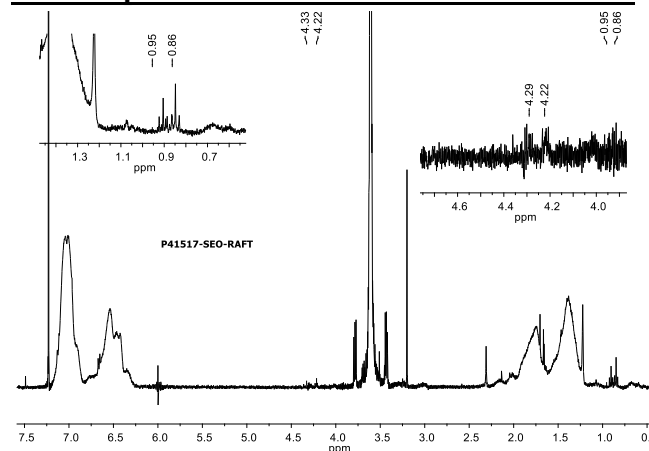
Characterization:

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

¹H NMR spectrum of the SEO sample:

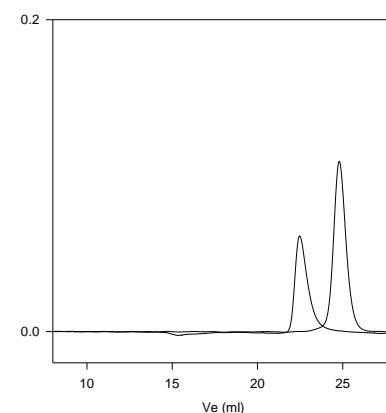


HNMR spectrum of SEO-terminated with RAFT:



SEC profile of the Sample:

P41517-SEO-RAFT



Size Exclusion Chromatography:

— Polystyrene, M_n=9,000, M_w=9,300, PI=1.02
— Block Copolymer Polystyrene-b-Poly(ethylene oxide)
Mw: PS(9,000)-b-PEO(19,000), PI=1.10