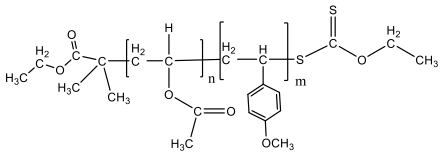
Sample Name:
Poly(vinyl acetate)-b-poly(4-methoxystyrene)

Sample #: **P42372-VAc4MeOS**

Structure:

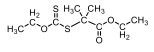


Composition:

$M_n \times 10^3$ VAc–b–4MeOS	PDI
6.5-b-103.0	1.6

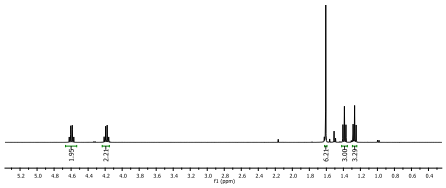
Synthesis Procedure:
The product was characterized by RAFT polymerization process using following RAFT reagent:

Structure:



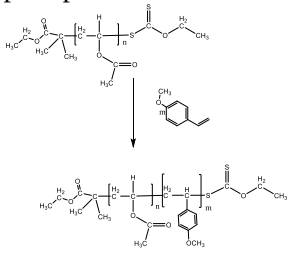
Chemical Formula: $C_9H_{16}O_3S_2$
Exact Mass: 236.05

^{1}H NMR spectrum of RAFT (400 MHz, $CDCl_3$):

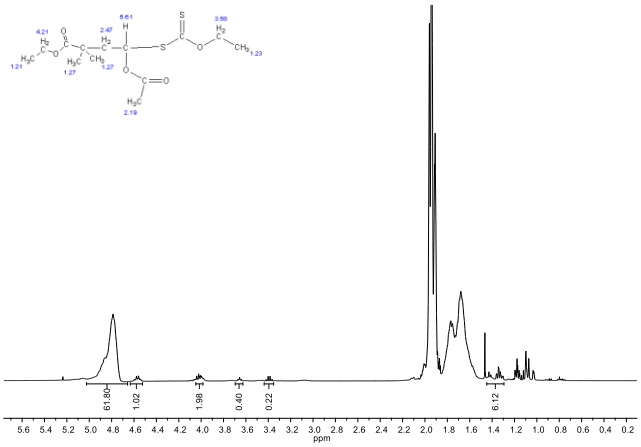


Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR and FTIR analysis.

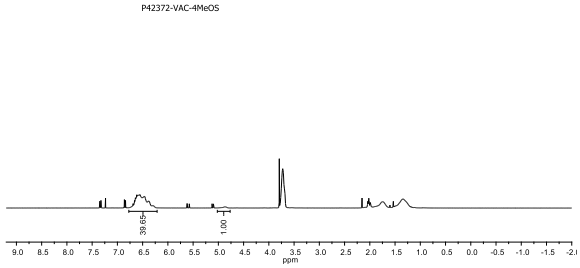
Solubility:
The polymer is soluble in THF, Acetone, $CHCl_3$ and precipitates from Hexane.



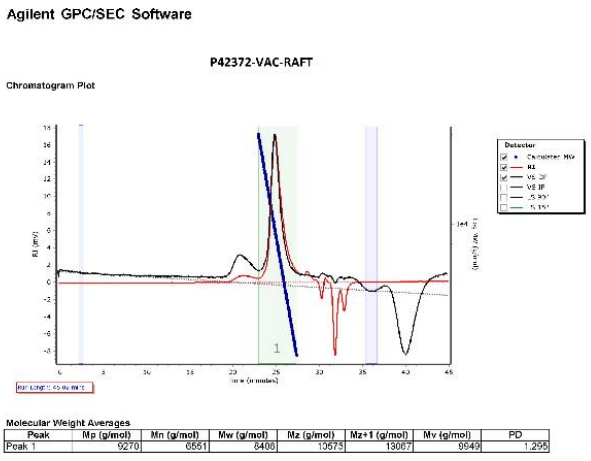
^{1}H NMR spectrum of PVAC-RAFT maroinitiator (500 MHz, $CdCl_3$):



^{1}H NMR spectrum of the Sample:



SEC elugram of the PVAC-RAFT maroinitiator:

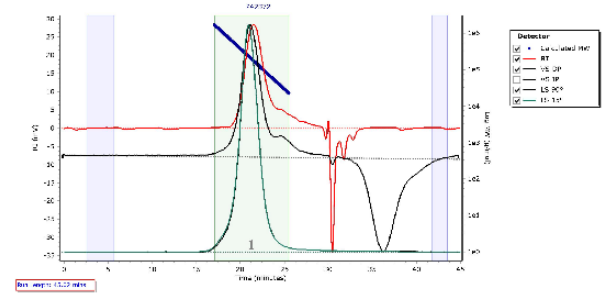


SEC elugram of the Sample:

Agilent GPC/SEC Software

P42372

Chromatogram Plot



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	175544	110195	176987	262506	415553	227033	1.606

FTIR spectrum of the Sample: