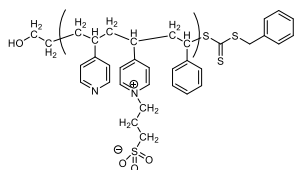


Sample Name: Poly (styrene-co-4-vinylpyridine-co-1-(3-Sulfopropyl)-4-vinylpyridinium), random

Sample #: P44103A-S4VP4VPSPran

Structure:

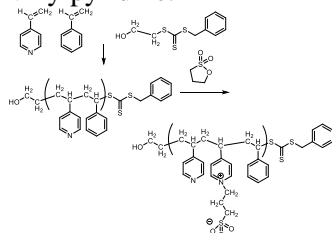


Composition:

Mn x 10 ³ PS-co-P4VP	PDI
13.5	1.09
P4VP (mol%): 20	
S: 4VP:4VPSP 8:1:1	
4VP fraction converted to Zwitter ionic ~ 10 mole%	
CAS Number: 26222-40-2 for S4VPran	

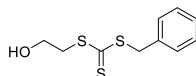
Synthesis Procedure:

The polymer is prepared by RAFT polymerization of styrene and 4-vinylpyridine.

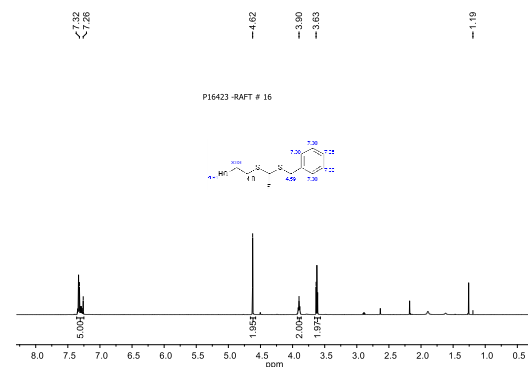


Following RAFT reagent was used:

Benzyl-2-hydroxyethyltrithiocarbonat
Structure:



¹H-NMR spectrum of RAFT (400 MHz, CDCl₃):



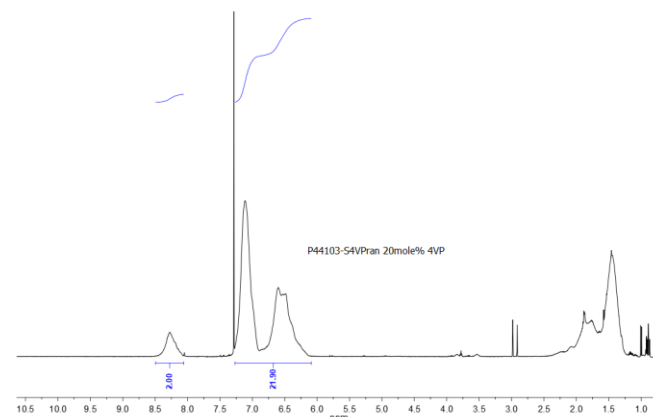
Characterization:

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

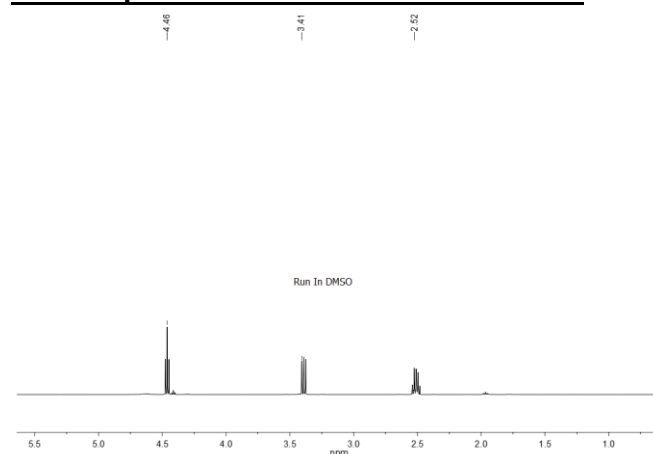
Solubility:

CHCl ₃	Soluble
Acetone	Hazy Solution
DMF	Soluble
THF	Soluble
Methanol	Swell
Water	Insoluble

¹H-NMR Spectrum of the S4VP random copolymer:



HNMR spectrum of Proanesultone in DMSO:



SEC of the random copolymer:

