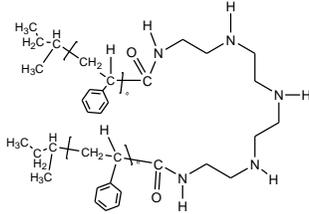


Sample Name: Polystyrene bearing Pent ethyl Hexamine unit in the middle of polymer chain
Sample #: P18909CC-S 2PEHA

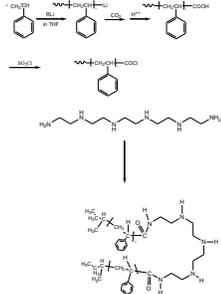
Structure:



Composition:

Mn x 10 ³	PDI
5.0	1.4
Contain about 10% SPEHA	

Synthesis Procedure:



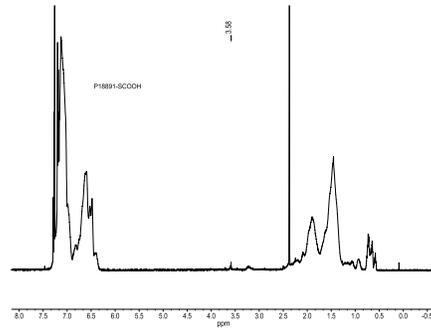
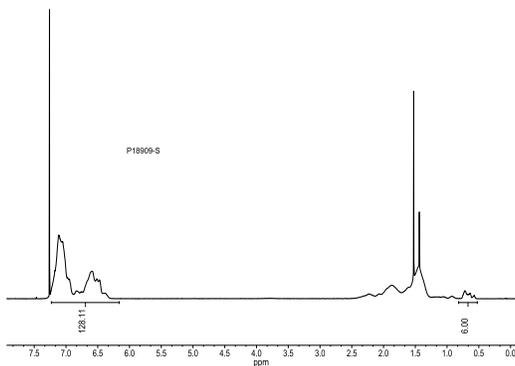
Characterization:

The molecular weight and polydispersity index of this polymer were determined before addition of the CO₂H function, by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by titration with NaOH using phenolphthalein as the indicator.

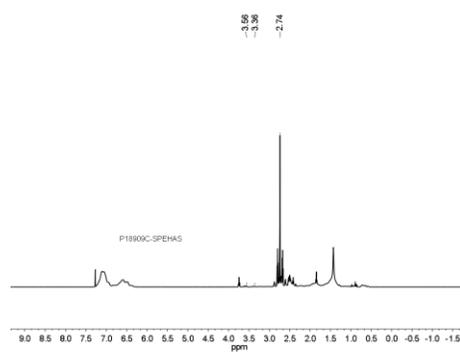
Solubility:

Polymer is soluble in toluene, THF, CHCl₃ and can be precipitated in water and cold methanol.

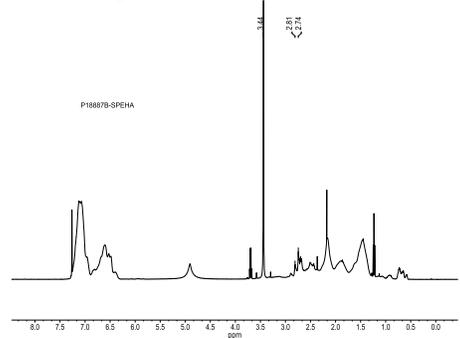
H NMR:



SPEHAS

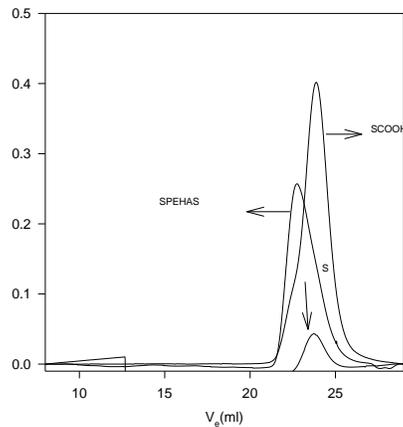


For comparison HNMR with terminal PEHA:



SEC of Sample: used for end functionalization with Pentaethylene hexamine

P18909CC-S-PEHA-S



Size exclusion chromatography of polymer in THf at 30 oC