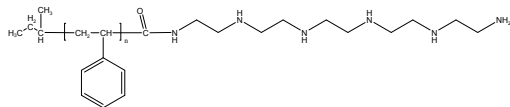


Sample Name:

Pentaethylene Hexamine Terminated Polystyrene

Sample #: P18071A-SPEHA

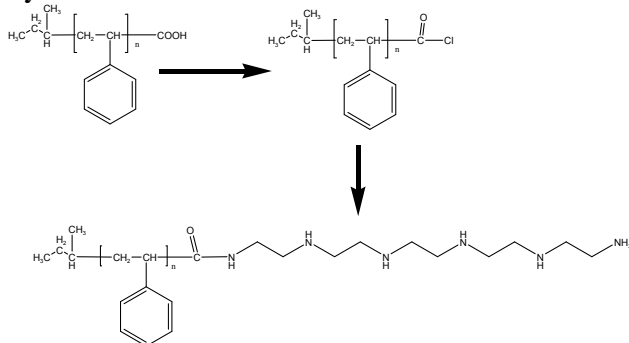
Structure:



Composition:

Mn x 10 ³	PDI
2.6	1.13
T _g (°C)	105
Functionality %	98

Synthesis Procedure:



Characterization:

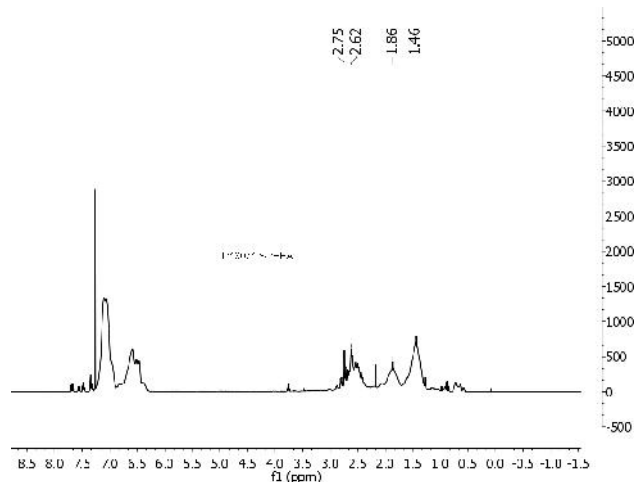
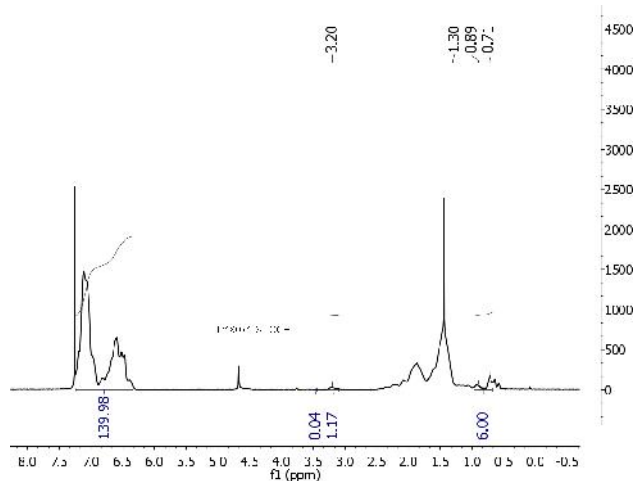
The molecular weight and polydispersity index of this polymer were determined before addition of the CO₂H function, by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by titration with NaOH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

Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

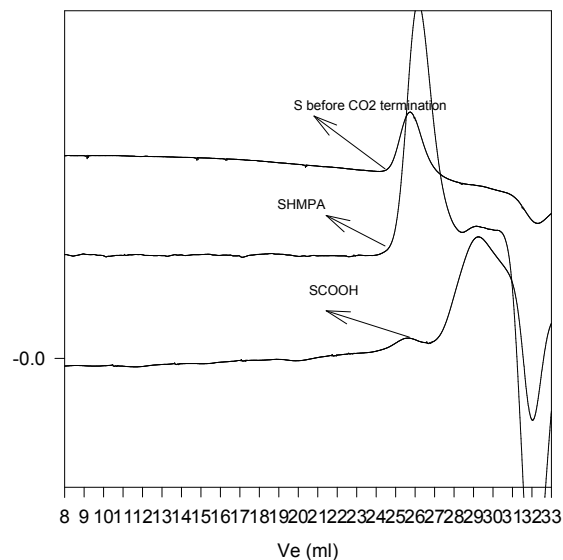
Solubility:

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



SEC of Sample:

P18071A-SHMPA



Size exclusion chromatography of monocarboxy terminated polystyrene (before adding Co₂).

M_n=2600, M_w=2,900, PI=1.13, functionality>99%

After termination with CO₂ the obtained polymer the elution retarded due to strong adsorption with column packing material

DSC thermogram for the sample:

