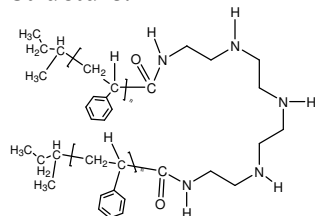


Sample Name: Polystyrene bearing Pent ethyl
Hexamine unit in the middle of polymer chain
Sample #: P18874C-S 2PEHA

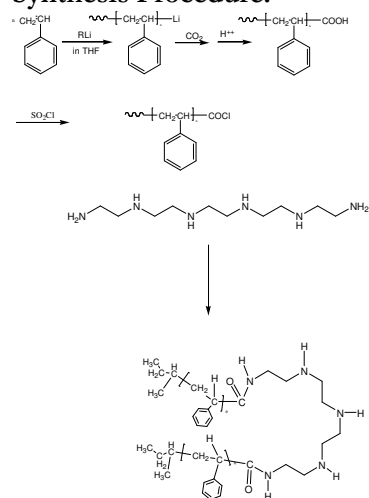
Structure:



Composition:

Mn x 10 ³	PDI
4.0	1.2
Unimer 	> 10%

Synthesis Procedure:



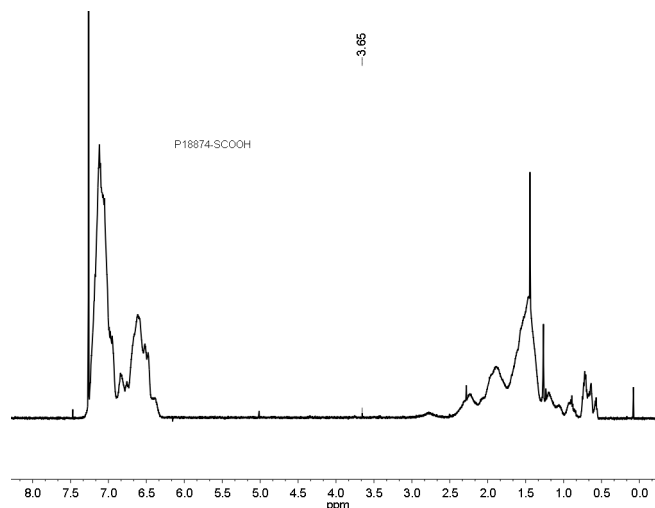
Characterization:

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.

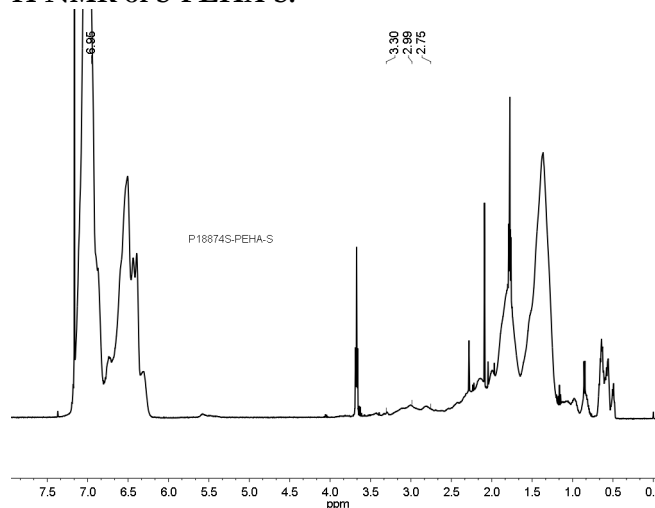
Solubility:

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

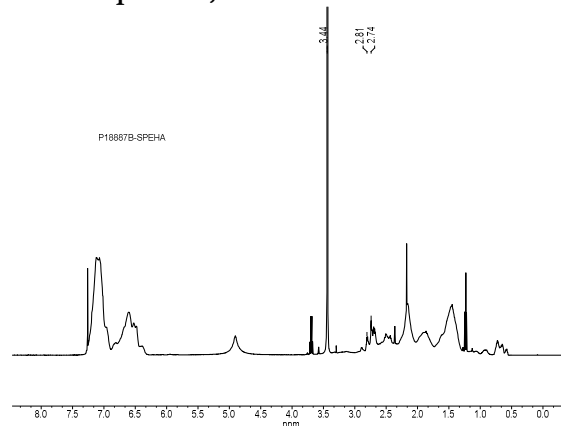
H NMR:



H NMR of S-PEHA-S:



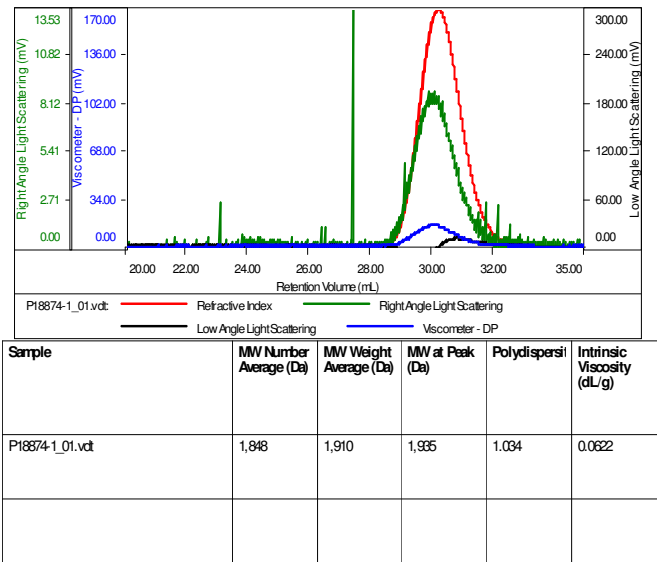
For comparison, H NMR with terminal PEHA:



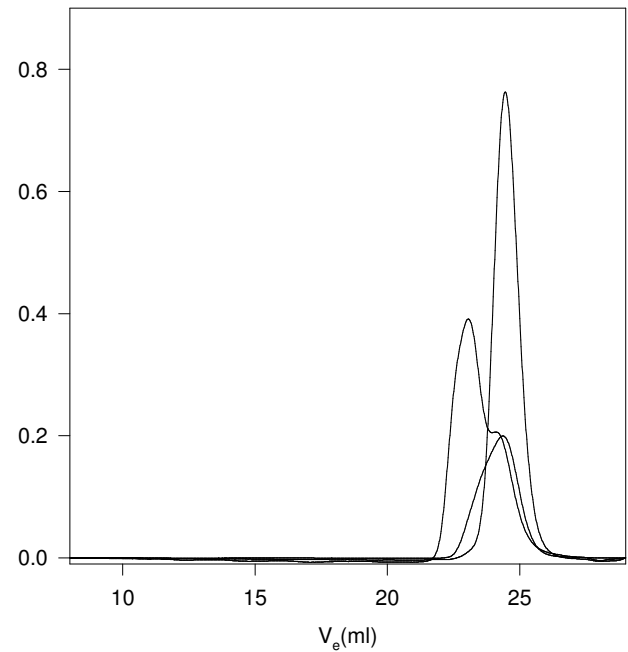
SEC of Sample used for end functionaliztion with
Pentaethylene hexamine:

Sample ID: P18874-1

Concentration (mg/mL)	7.6290
Sample dn/dc (mL/g)	0.1840
Method File	PS30K-0903-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



P18874C-S-PEHA-S



Size exclusion chromatography of polymer in THf at 30 oC