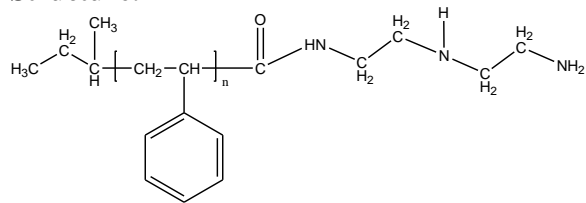


Sample Name:

Poly(styrene), ω -(diethylene triamine)-terminated

Sample #: **P18083CC-SDTA**

Structure:



Composition:

$M_n \times 10^3$	PDI
0.9	1.25
Functionality %	98

Synthesis Procedure:

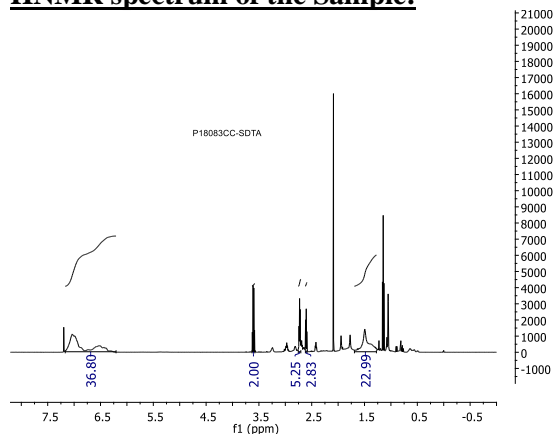
The polymer is prepared by anionic polymerization process.

Characterization:

The molecular weight and polydispersity index of this polymer were determined before addition of the CO_2H 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.

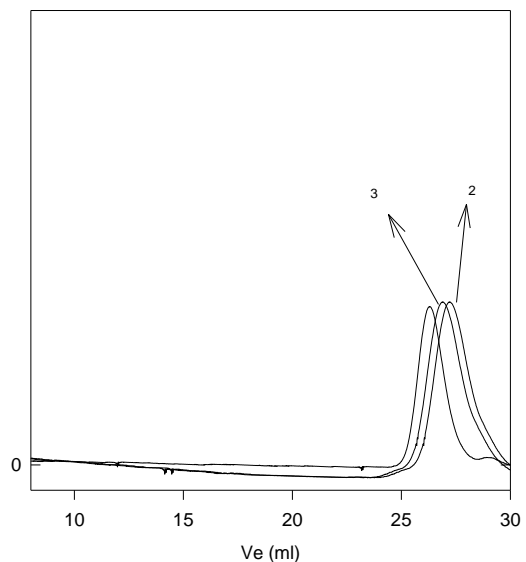
Solubility: Polymer is soluble in toluene, THF, CHCl_3 and can be precipitated in water and cold methanol.

HNMR spectrum of the Sample:



SEC profile of Sample:

P18083CC-SDTA



Size exclusion chromatography of monocarboxy terminated polystyrene (before adding Co_2).

$M_n=900$, $M_w=1,200$ PI=1.25 functionality >95%

2. After attaching COOH the elution retarded
3. After attached diethylene triamine