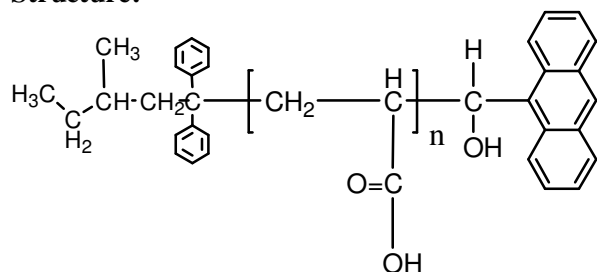


Sample Name: Anthracene Terminated Poly(acrylic acid)

Sample #: P19699-AA-AnOH

Structure:



Composition:

Mn x 10 ³	PDI
5.0	1.5

Synthesis Procedure:

Anthracene ended polyacrylic acid is prepared via anionic process using tBuA and its hydrolysis after polymerization..

Characterization:

The polymer was characterized by SEC and ¹H NMR.

Functionality: functionality of the obtained polymer was determined by proton NMR.

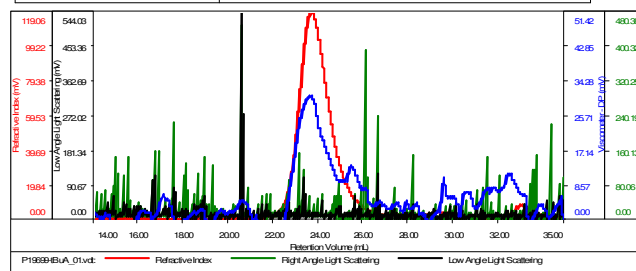
Solubility:

Anthracene terminated PAA is soluble in water and methanol. It precipitates from hexane.

SEC of poly(tert-butyl acrylate) before hydrolysis:

Sample ID-P19699-tBuA An

Concentration (mg/mL)	2.4334
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Jan-2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19699-tBuA_01.vcl	8,404	13,099	7,762	1.559	0.8353

After hydrolysis of ester: PAA-An Mn: 5,000

¹H NMR spectrum of poly(tert-butyl acrylate):

