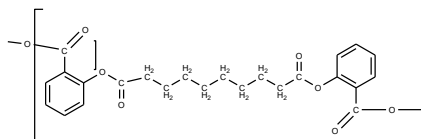


Sample Name: Polyanhydride based on salicylic acid and sebacic acid

Sample #: P6389-SSAnh

Structure:

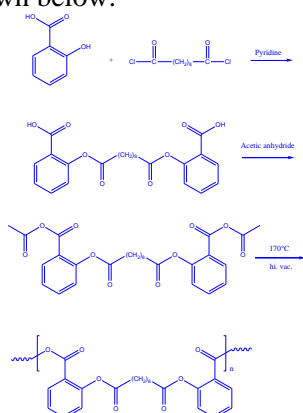


Composition:

(DMF) Mn x 10 ³	[η]	Mw/Mn	Solubility
16.0	0.202 dl/g	2.8	Chloroform or Dichloromethane

Synthesis Procedure:

The polyanhydride is prepared from salicylic acid and sebacoyl chloride in three-step procedure. The reaction scheme is shown below:



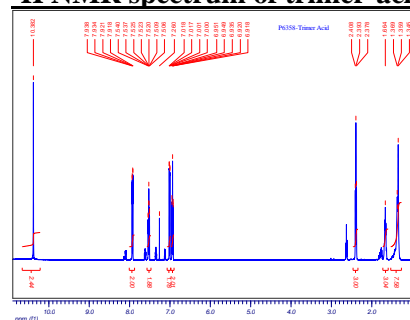
Characterization:

The product was characterized by size exclusion chromatography (SEC) run in DMF as eluant and ¹H NMR solution viscosity in CHCl₃.

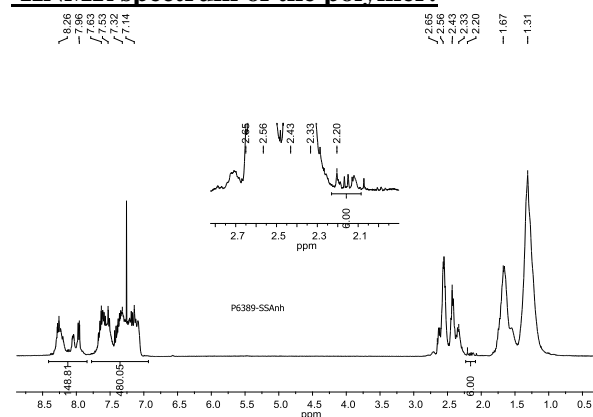
Solubility:

The polyanhydride is soluble in chloroform, acetone, THF, DMF and dichloromethane.

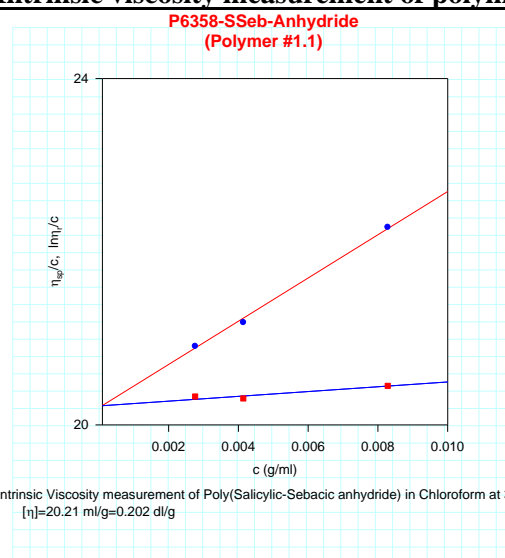
¹H NMR spectrum of trimer-acid:



¹H NMR spectrum of the polymer:



Intrinsic viscosity measurement of polymer:

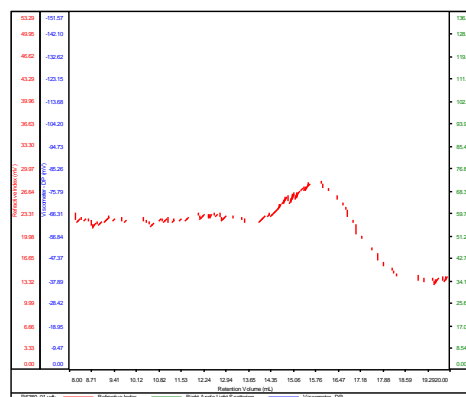


Intrinsic Viscosity measurement of Poly(Salicylic-Sebacic anhydride) in Chloroform at 30°C
[η]=20.21 ml/g=0.202 dl/g

SEC elugram of the polymer runs in DMF:

P6389-SSAnh Mp: 47,000

Cone	0.0000
dn/dc	0.0000
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80k_2018-04-02-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
_P6389_01.vdt	No Peak 1	No Peak 1	No Peak 1	No Peak 1	No Peak 1