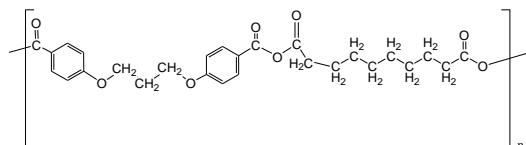


**Sample Name:** Polyanhydride based on 1,3 bis(p-carboxyphenoxy) propane: sebacic acid

**Sample #:** P41149B-CPPSA-Anh

**Structure:**



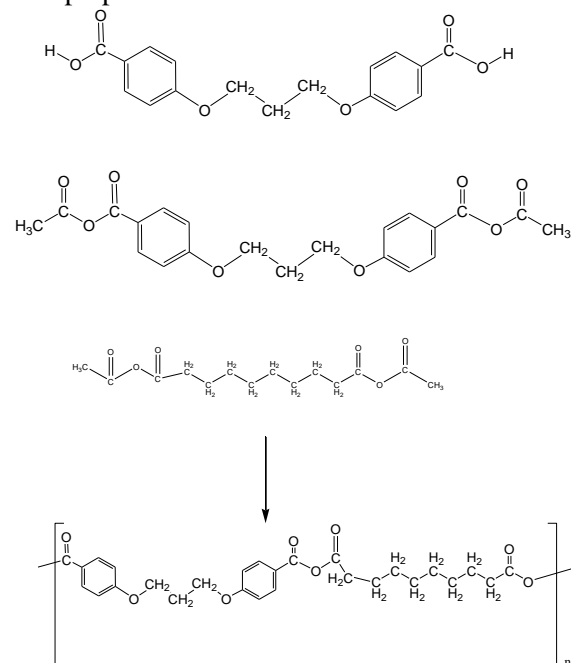
**Composition:**

$[\eta]$ Chloroform at 25 °C	$M_n \times 10^3$	Mw/Mn	Tg °C
0.80 dl/g	8.5	2.7	68

**CPP: SA (ratio by weight) 10:90**

**Synthesis Procedure:**

The following reaction scheme shows how the product was prepared:



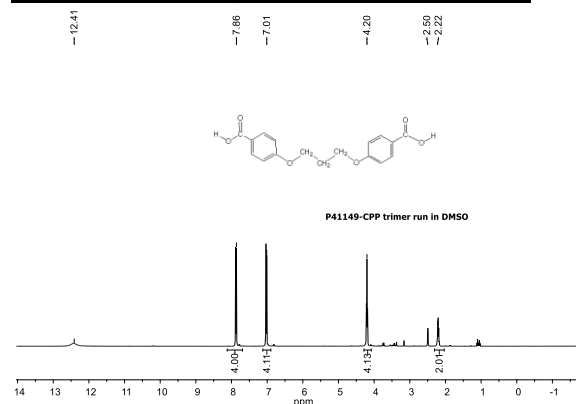
**Characterization:**

The product was characterized by  $^1\text{H}$ -NMR spectroscopy, which is run in deuterated DMSO at 400MHz. The inherent viscosity of final polymer was determined by Ubbelohde capillary viscometer in chloroform at 25°C.

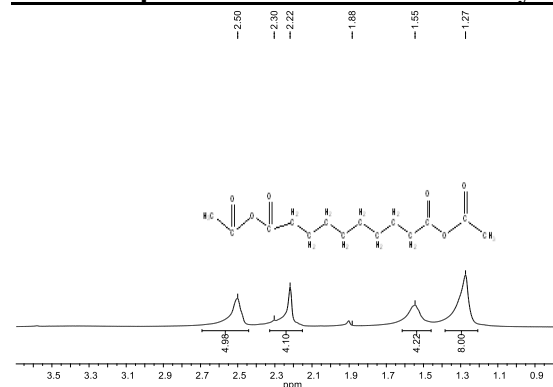
**Solubility:**

The polyanhydride is soluble in chloroform, and dichloromethane.

**Figure:  $^1\text{H}$  NMR spectrum of trimer-acid:**

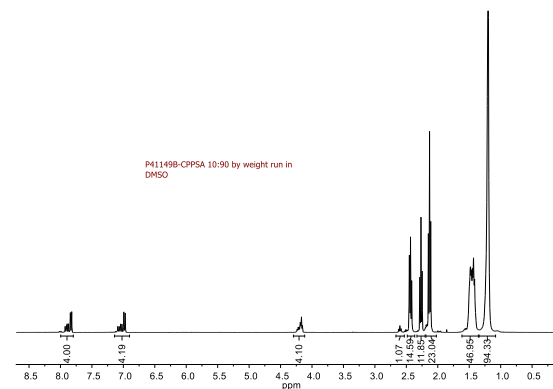


**$^1\text{H}$  NMR spectrum of Sebacic acid dianhydride:**

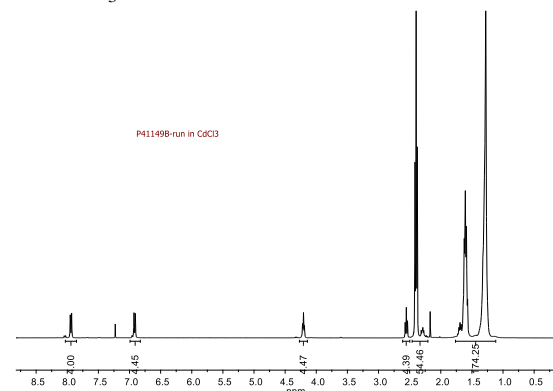


**$^1\text{H}$  NMR spectrum of the Polymer:**

**I: DMSO**

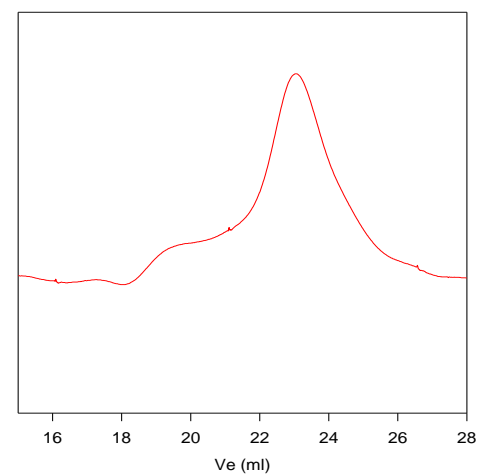


**II:  $\text{CdCl}_3$**



## GPC profile of the polymer:

**P41149B-CPPSAanh**

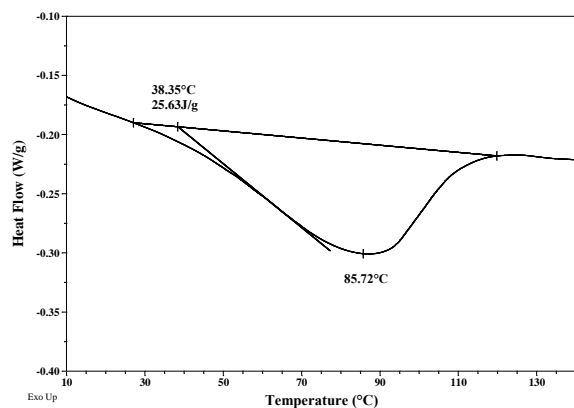


—  $M_n=8,500$   $M_w/M_n: 2.7$

## Thermal analysis data of CPP trimer:

Sample: P41149-2  
Size: 10.5000 mg

File: P41149-2.001



## Thermal analysis data of Poly anhydride:

Sample: P41149  
Size: 8.7000 mg

File: P41149.001

