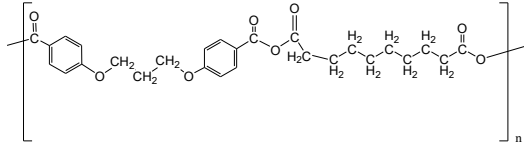


**Sample Name:** Polyanhydride based on 1,3 bis(p-carboxyphenoxy) propane: sebacic acid

**Sample #:** P43589-CPPSA-Anh

**Structure:**



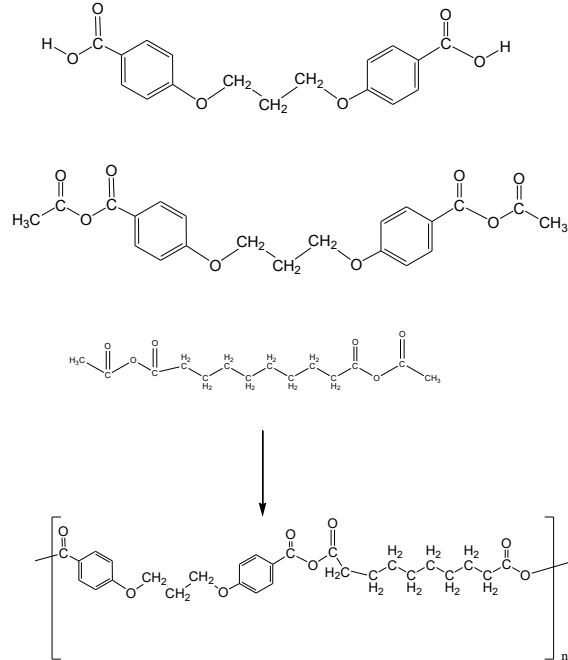
**Composition:**

| [η]       | Mw x 10 <sup>3</sup> | Mn x 10 <sup>3</sup> | Mw/Mn | Tg °C |
|-----------|----------------------|----------------------|-------|-------|
| 0.50 dl/g | 26.0                 | 9.0                  | 2.7   | 97    |

**CPP: SA (ratio by weight) 18:82**

**Synthesis Procedure:**

The following reaction scheme shows how the product was prepared:



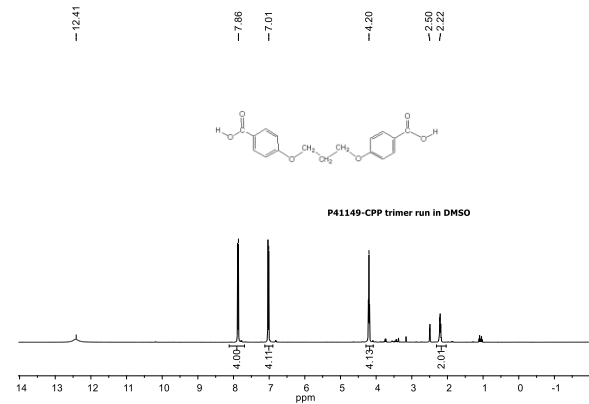
**Characterization:**

The product was characterized by <sup>1</sup>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.

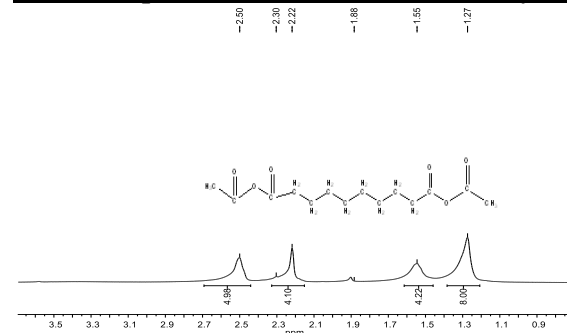
**Solubility:**

The polyanhydride is soluble in chloroform, and dichloromethane.

**Figure: <sup>1</sup>H NMR spectrum of trimer-acid:**

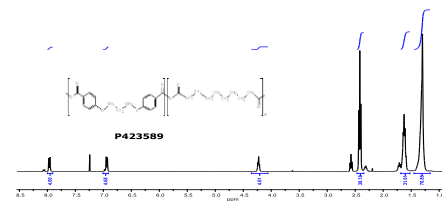


**<sup>1</sup>H NMR spectrum of Sebacic acid dianhydride:**



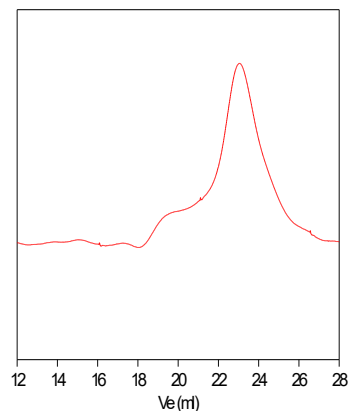
**<sup>1</sup>H NMR spectrum of the Polymer:**

I: CdCl<sub>3</sub>



**GPC profile of the polymer:**

P43589-CPPSAanh

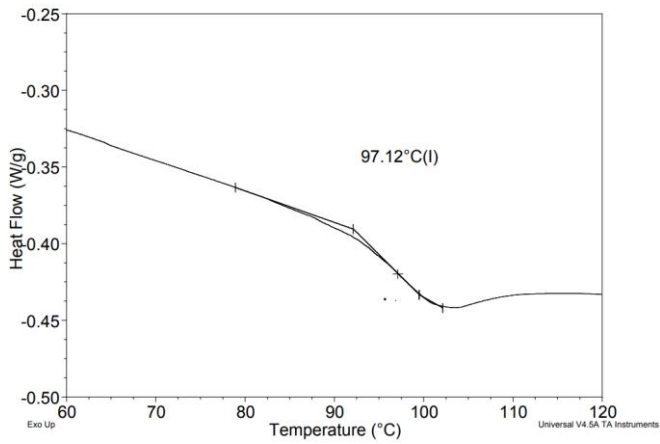


Size Exclusion Chromatography of the polymer in CHCl<sub>3</sub>

— 2M<sub>w</sub>=9,000 Mw=26,000 Mw/Mn 2.7

**Thermal analysis data of CPP trimer:**

Sample: P80586



**Thermal analysis data of Poly anhydride:**

