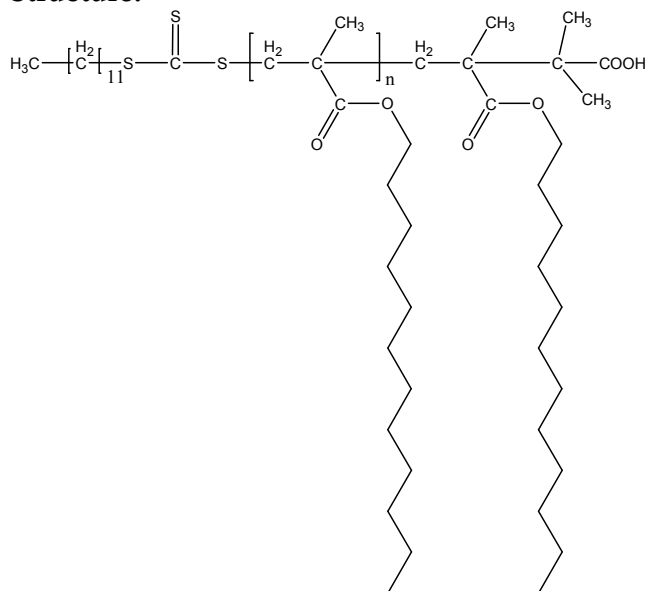


**Sample Name:**  
**Carboxy Terminated Poly(lauryl methacrylate)**

**Sample #: P10233-LMACOOH**  
 By RAFT process

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
11.0	1.3
COOH functionality	99%

**Synthesis Procedure:**

BY RAFT PROCESS

**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector before the termination with CO<sub>2</sub>. COOH functionality was determined by titration.

**Thermal analysis:**

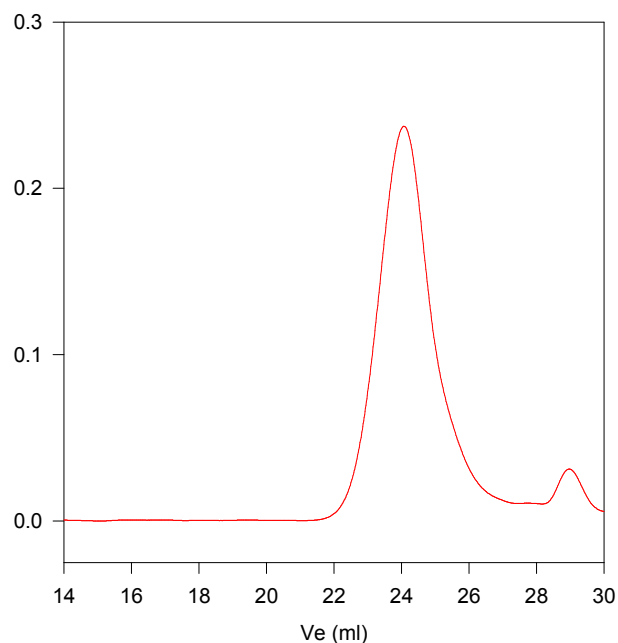
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T<sub>g</sub>) has been considered.

**Solubility:**

The polymer is soluble in THF, Toluene, chloroform and acetone.

**SEC of Sample:**

**P10233-LMACOOH**



Size exclusion chromatography of  $\alpha$ -carboxy Terminated poly(lauryl methacrylate):

M<sub>n</sub>=11,000, M<sub>w</sub>=14,300, PI=1.3

**HNMR of the Polymer:**

