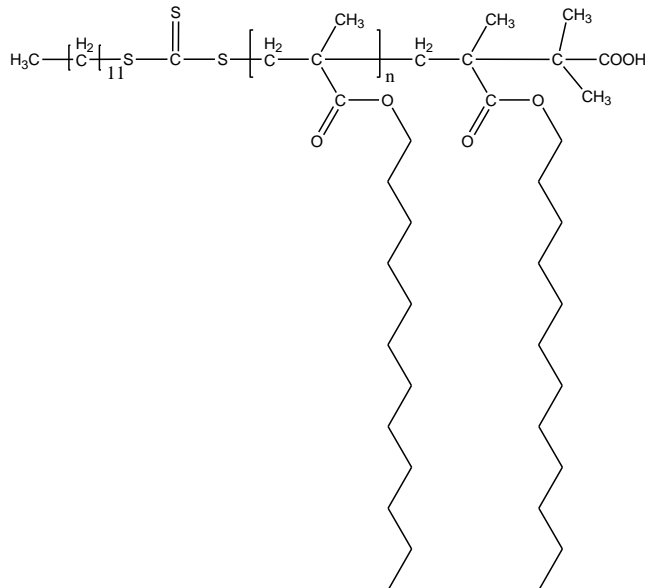


Sample Name:**Carboxy Terminated Poly(lauryl methacrylate)****Sample #: P10233A-LMACOOH**

By RAFT process

Structure:**Composition:**

$M_n \times 10^3$	PDI
10.0	1.4
COOH functionality	99%

Synthesis Procedure:

BY RAFT PROCESS

Characterization:

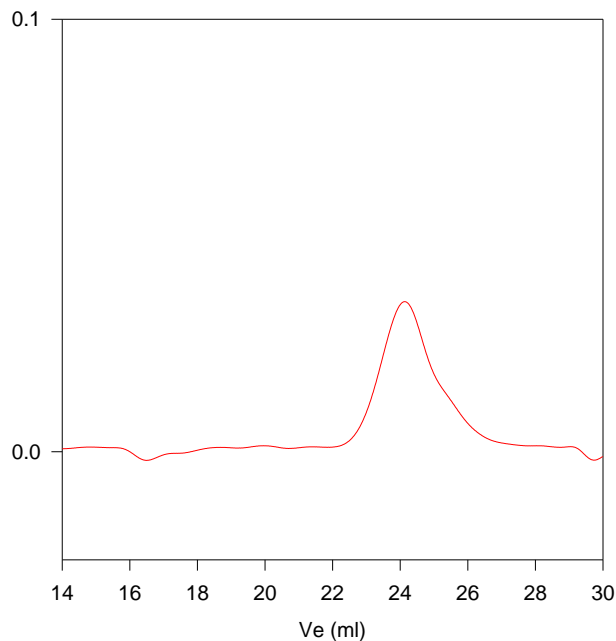
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector before the termination with CO₂. COOH functionality was determined by titration.

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_g) has been considered.

Solubility:

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

SEC of Sample:**P10233A-LMACOOH**

Size exclusion chromatography of α -carboxy Terminated poly(lauryl methacrylate):

$M_n=10,000$, $M_w=14,000$, $PI=1.4$