

Product Profile

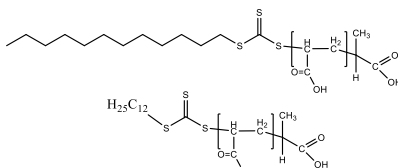
Identification

Product Name: Poly(acrylic acid), (ω-RAFT, α-Carboxylic acid)-terminated

Poly(acrylic acid), (α-Carboxylic acid, ω-(S-1-dodecyl-S'-(α,α'-dimethyl-α''-acetic acid) trithiocarbonate (DDMAT) or more precisely ω -Dodecyl-trithiocarbonate- terminated.

Product Lot Number: P45135-AA-RAFT

Product Chemical Architecture:

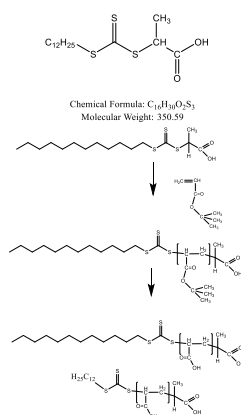


Composition:

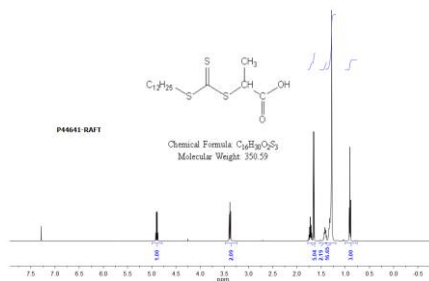
Mn x 10 ³	Mw/Mn (PDI)
5.0	1.02
Dp: PtBuA ₆₆ from ¹ H NMR	
Dp: PAA ₆₆	

Method of Synthesis

The polymer is synthesized by RAFT polymerization process using following RAFT reagents.



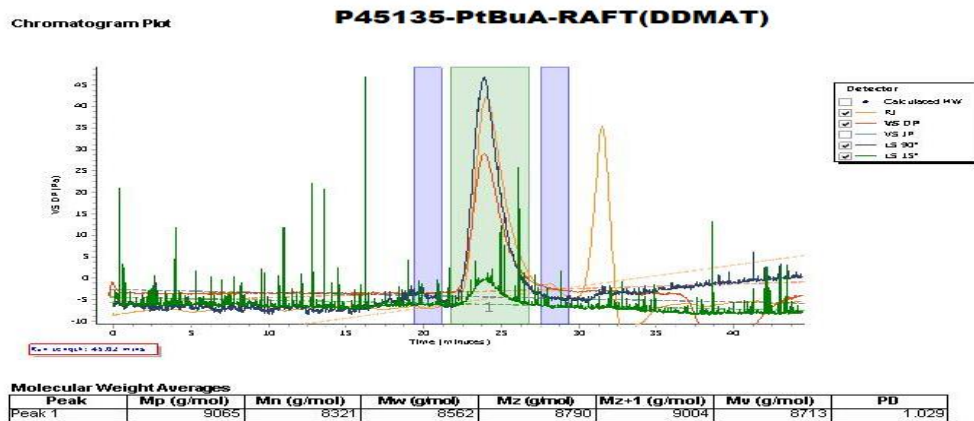
¹H NMR spectrum of the Sample (CDCl₃):



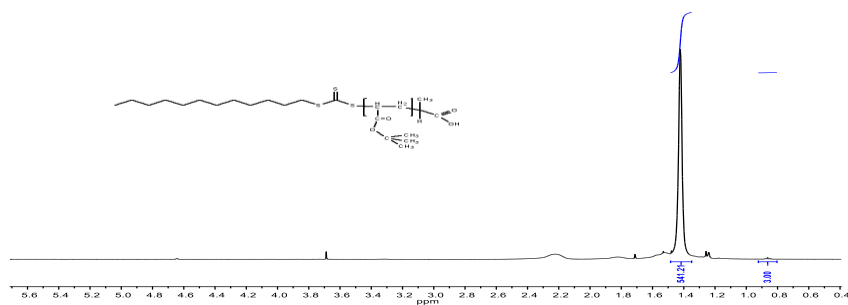
Solubility of polymer in different solvents

Solubility of Polymer in different solvents			
THF	×	Acetone	×
CHCl ₃	×	H ₂ O	√
Toluene	×	Methanol	√

A. Gel Permeation Chromatography (GPC), SEC- Profile for PtBuA-RAFT attached



B. NMR (HNMR) of polymer:



HNMR of PAA-DDMAT run in DMSO

