

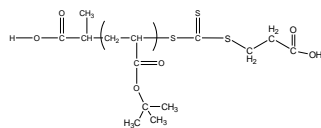
# Product Profile

## Identification

Product Name: Poly(*tert*-butyl acrylate), terminated with RAFT group

Sample #: P44653-tBuARAFT

Product Chemical Architecture:

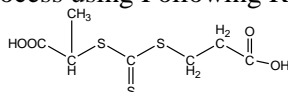


## Composition:

Mn x 10 <sup>3</sup> ptBuA-RAFT	Mw/Mn (PDI)
6.5	1.13
Dp of ptBuA <sub>50</sub> : from <sup>1</sup> H NMR	

## Method of Synthesis

The polymer is synthesized by RAFT Process using Following RAFT reagent.



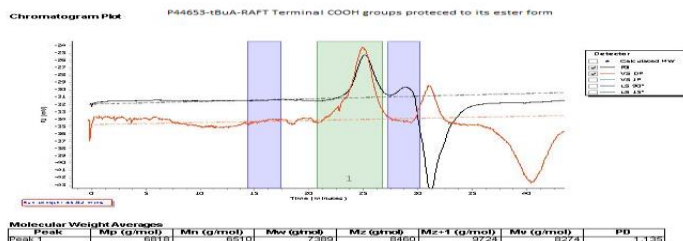
## Solubility in different solvents:

THF	√	Ethanol-Hot	√
Methanol-Hot	√	CHCl <sub>3</sub>	√
DMF	√		

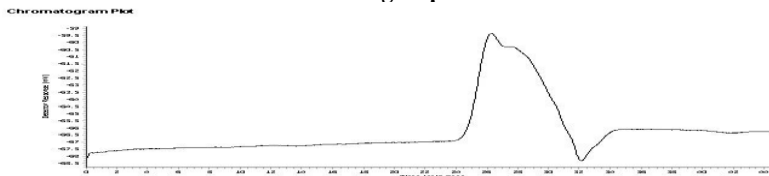
Purification of Polymer to remove traces amount of un-reacted RAFT reagent.

## Validation of Architecture

### A. Gel Permeation Chromatography (GPC), SEC- of PtBuA and its Blopck copolymer:



### GPC Profile with Free COOH terminal groups:



### B. NMR (HNMR) of PtBuA RAFT:

