

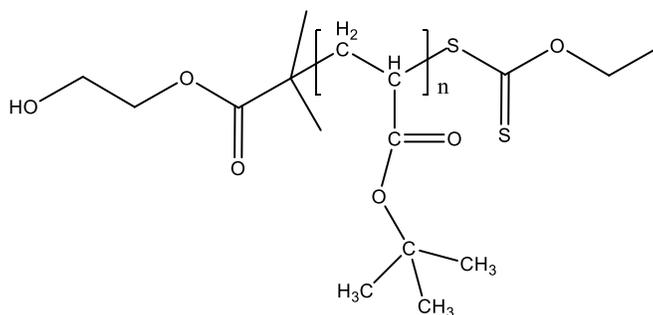
Product Profile

Identification

Product Name: Poly(tert-butyl acrylate),(ω -RAFT, α -Hydroxy)-terminated

Product Lot Number: P44564A-tBuAOH-RAFT

Product Chemical Architecture:

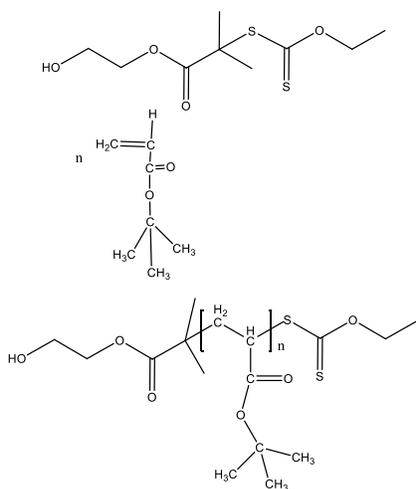


Composition:

Mn x 10 ³	Mw/Mn (PDI)
5.5	1.7
Dp: PtBuA ₃₉ from ¹ H NMR	
OH functionality% : 98 (¹ H NMR)	

Method of Synthesis

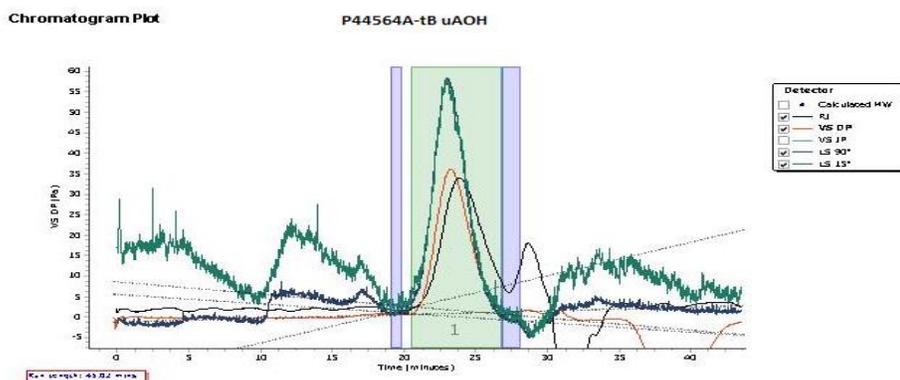
The polymer is synthesized by RAFT polymerization process using Hydroxyl containing RAFT reagents. The following reaction scheme shows how the product was prepared:



Solubility of polymer in different solvents

THF	√	Acetone	√
CHCl ₃	√	CHCl ₃	√
Toluene-Hot	√	Methanol-Hot	Opaque soluble

Gel Permeation Chromatography (GPC), SEC- Profile for PtBuA-OH:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	8504	5651	9899	15916	22573	14954	1.752

- A.
- B.

NMR (HNMR) of polymer:

