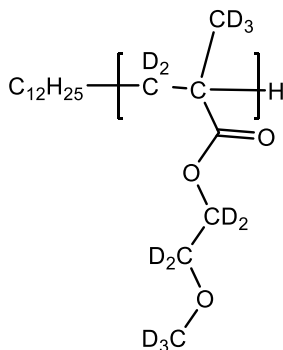


**Poly(d12-Methoxy ethylene glycol-methacrylate)**

### Structure:

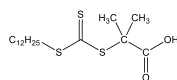


### Composition:

Mn x 10 <sup>3</sup>	PDI
44.5	1.45

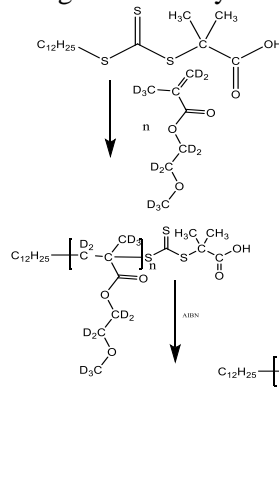
### Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process using following RAFT reagent.



Chemical Formula:  $C_{17}H_{32}O_2S_2$   
Molecular Weight: 364.6

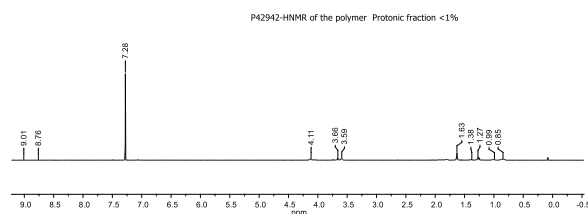
After polymerization, the end thiol moiety was cleaved using AIBN catalyst.



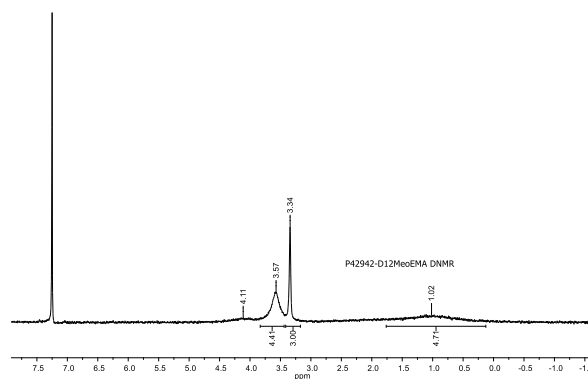
### Characterization:

The product was characterized by size exclusion chromatography (SEC) and  $^1\text{H}$ -NMR data analysis.

**<sup>1</sup>H-NMR spectrum of the polymer:**



**D-NMR spectrum of the polymer:**



**SEC elugram of Homopolymer:**

