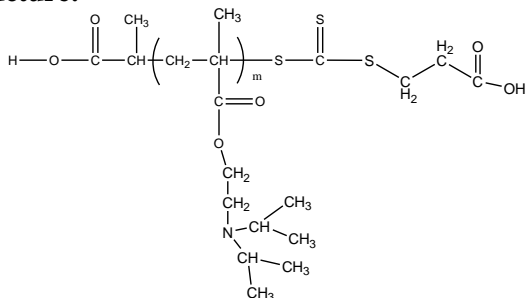


**Sample Name:**  $\alpha$ - $\omega$  Di carboxylic acid terminated Poly(N-N-diisopropyl aminoethyl methacrylate)

**Sample #:** P40840D-DIPAEMA

**Structure:**

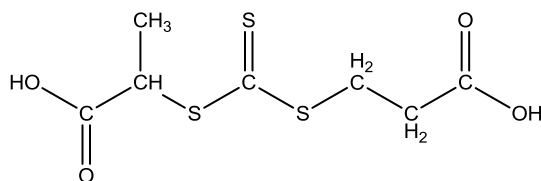


**Composition:**

Mn x 10 <sup>3</sup>	PDI
32.0	1.7

**Synthesis:**

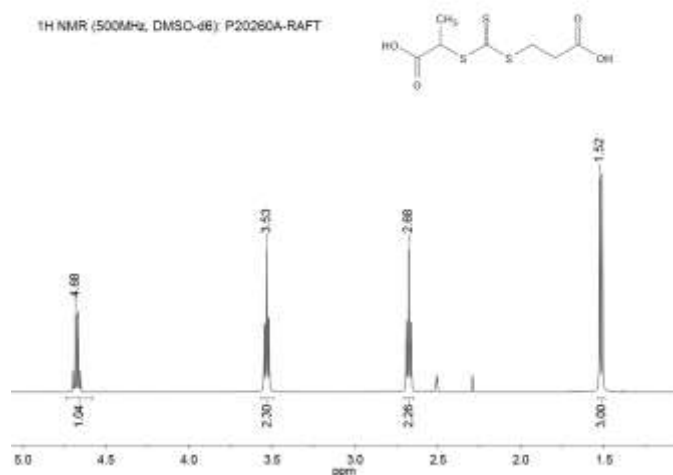
The polymer was synthesized by RAFT polymerization process using below RAFT reagent:



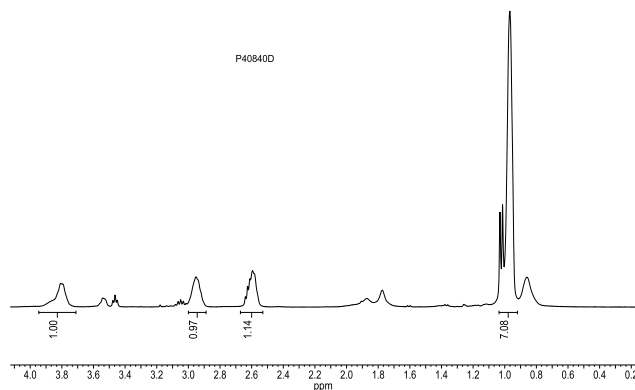
Chemical Formula: C<sub>7</sub>H<sub>10</sub>O<sub>4</sub>S<sub>3</sub>

Molecular Weight: 254.3

**<sup>1</sup>H NMR spectrum of RAFT reagent (500 MHz, DMSO-d<sub>6</sub>):**



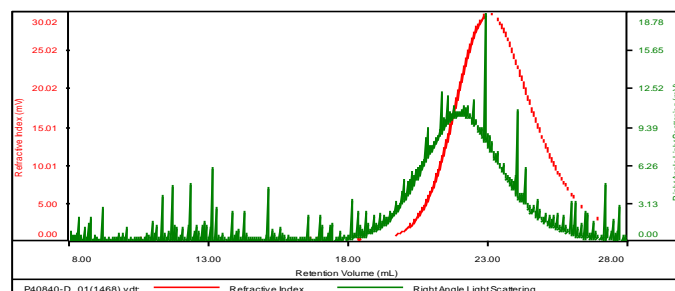
**<sup>1</sup>H NMR spectrum of the sample:**



**SEC elugram of Homopolymer:**

**P40840D-DIPAEMA**

Concentration (mg/mL)	0.7466
Sample dn/dc (mL/g)	0.0840
Method File	PS100K-SEPT19-2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40840-D_01(1468).vdt	32,083	54,635	1.703	0.1185	39,664