

Supplementary Data

Synthesis and characterization of multicolor luminescent and thermally stable thioureas and polythioamides

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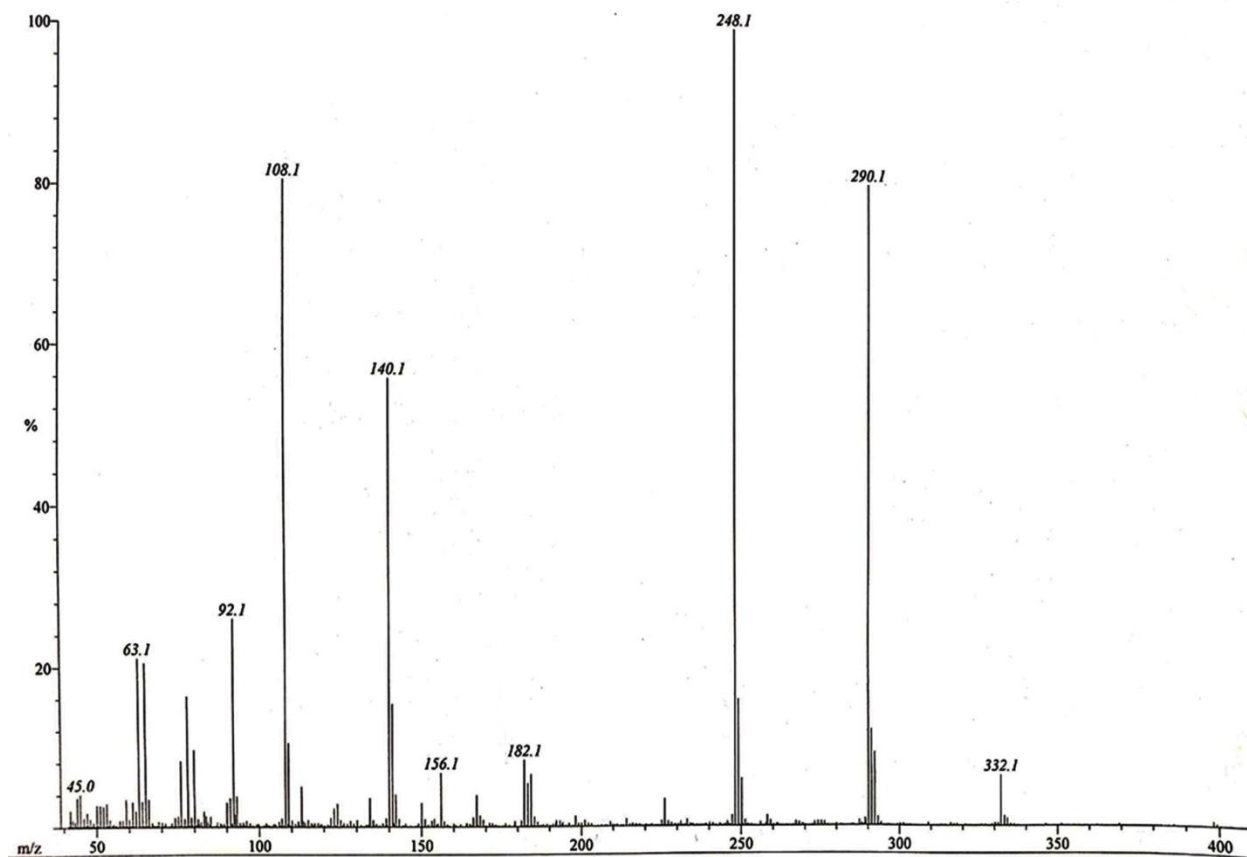


Fig. S1a E.I Mass spectrum of thiourea monomer SBT

Threshold: .5% of Base

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Mass	%Base	Mass	%Base	Mass	%Base	Mass	%Base	Mass	%Base	Mass	%Base	Mass	%Base	Mass	%Base
42.0	2.2	61.1	3.2	81.1	1.1	102.1	.5	126.1	.6	167.1	4.0	225.2	.7	275.2	.6
42.7	1.0	62.1	2.1	82.1	.8	106.1	.7	128.1	.8	168.2	1.5	226.1	3.4	276.1	.6
43.4	.7	63.1	21.3	83.0	2.0	107.0	1.1	130.1	.9	169.2	.9	227.2	.6	287.2	.8
44.0	3.7	64.1	3.3	83.6	1.5	108.1	80.7	134.1	3.7	171.1	.5	231.1	.6	289.1	1.0
45.0	4.1	65.1	20.7	84.1	.7	109.1	10.6	135.1	.9	179.1	.7	233.1	.9	289.3	.7
46.0	1.2	66.1	3.5	85.0	1.3	110.1	.9	139.1	1.2	181.2	.8	245.7	.6	290.1	80.7
47.1	1.9	67.1	.7	87.1	.7	112.1	.8	140.1	56.1	182.1	8.4	247.2	1.3	291.1	12.2
48.0	1.1	69.1	.7	88.1	.6	113.1	5.1	141.1	15.5	183.2	5.5	248.1	100.0	292.1	9.3
49.0	.6	70.1	.7	90.1	3.1	113.6	.8	141.3	.6	184.2	6.5	249.1	16.1	293.1	1.2
50.1	2.8	71.2	.6	91.1	3.7	114.1	.6	142.1	4.1	185.2	1.3	250.1	6.0	332.1	6.4
51.1	2.8	73.1	.6	91.6	.6	115.1	.9	143.1	1.0	186.2	.7	251.2	.8	333.1	1.3
52.1	2.6	74.1	1.2	92.1	26.2	116.1	.6	150.1	3.0	192.1	.8	256.1	.5	334.1	1.0
53.1	3.0	75.1	1.4	92.6	1.6	117.1	.5	151.0	1.0	193.2	.8	258.1	1.4	398.3	.7
54.1	1.0	76.0	8.4	93.1	3.9	118.2	.6	153.2	.8	194.2	.6	259.1	.7		
57.1	.9	77.1	1.1	94.1	.6	122.1	1.2	154.0	1.0	198.1	1.4	267.1	.6		
58.1	.9	78.1	16.5	95.1	.6	123.1	2.4	156.1	6.8	201.1	.8	268.1	.6		
59.0	3.5	79.1	1.3	96.1	.8	124.1	2.9	157.0	.8	209.1	.6	273.1	.6		
60.0	1.0	80.1	9.8	97.2	.5	125.1	.9	166.1	1.2	214.1	1.0	274.1	.7		

Fig. S1b E.I Mass spectral result data sheet of thiourea monomer SBT

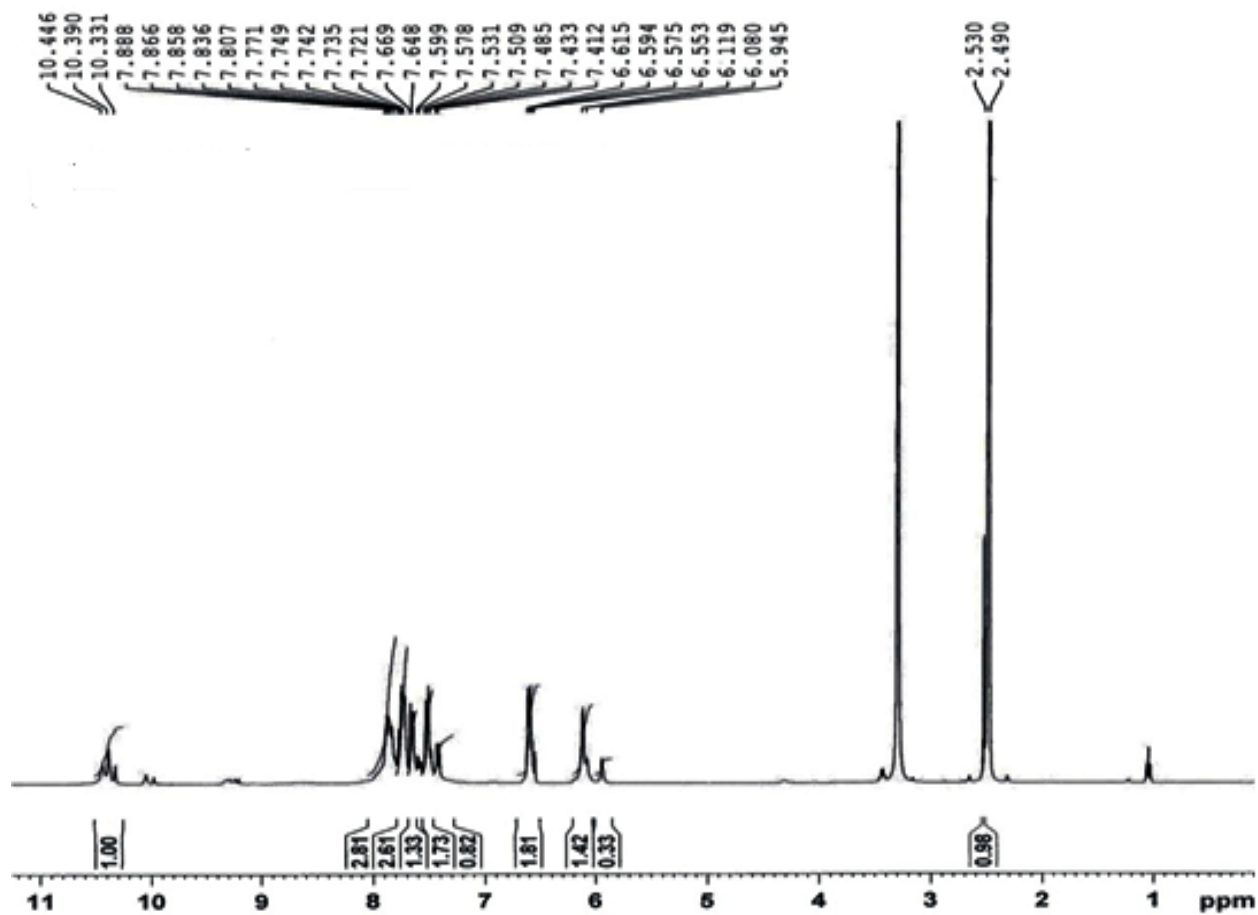


Fig. S2 ^1H NMR spectrum of thiourea monomer SBT

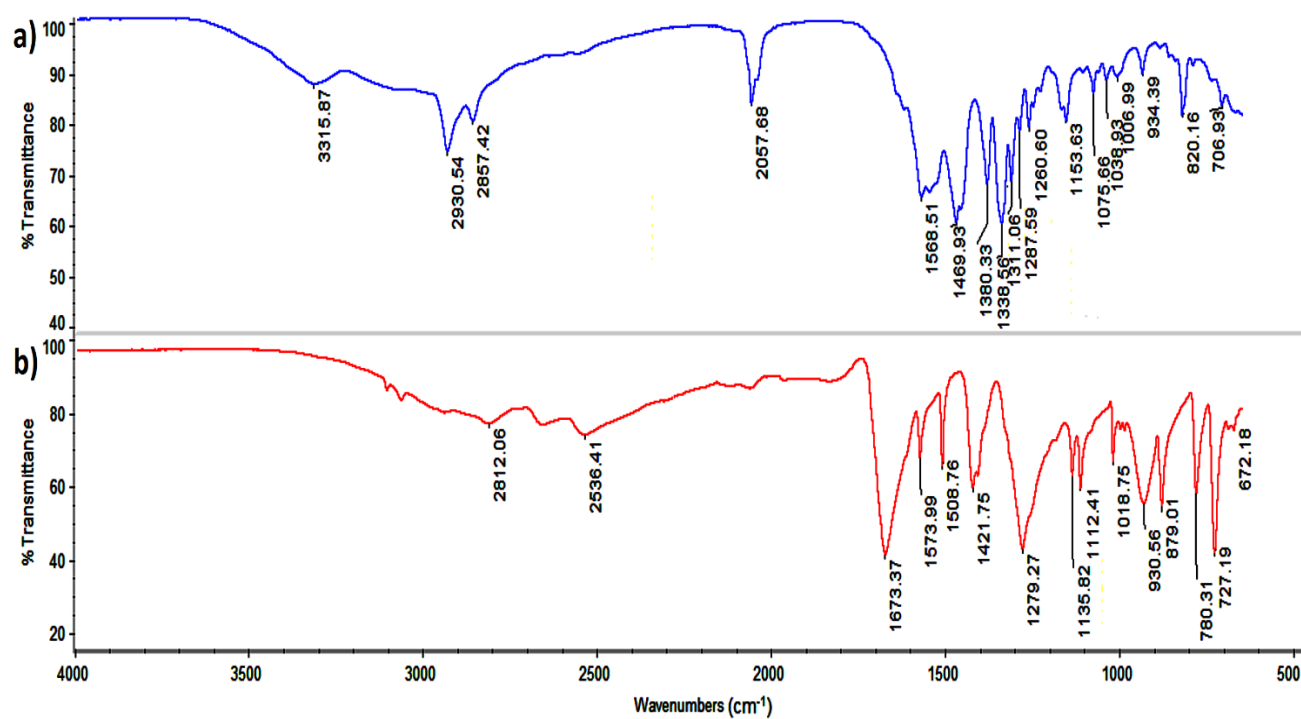


Fig. S3 FT-IR spectra of **a)** thiourea monomer CBT and **b)** its corresponding polythioamide PCB

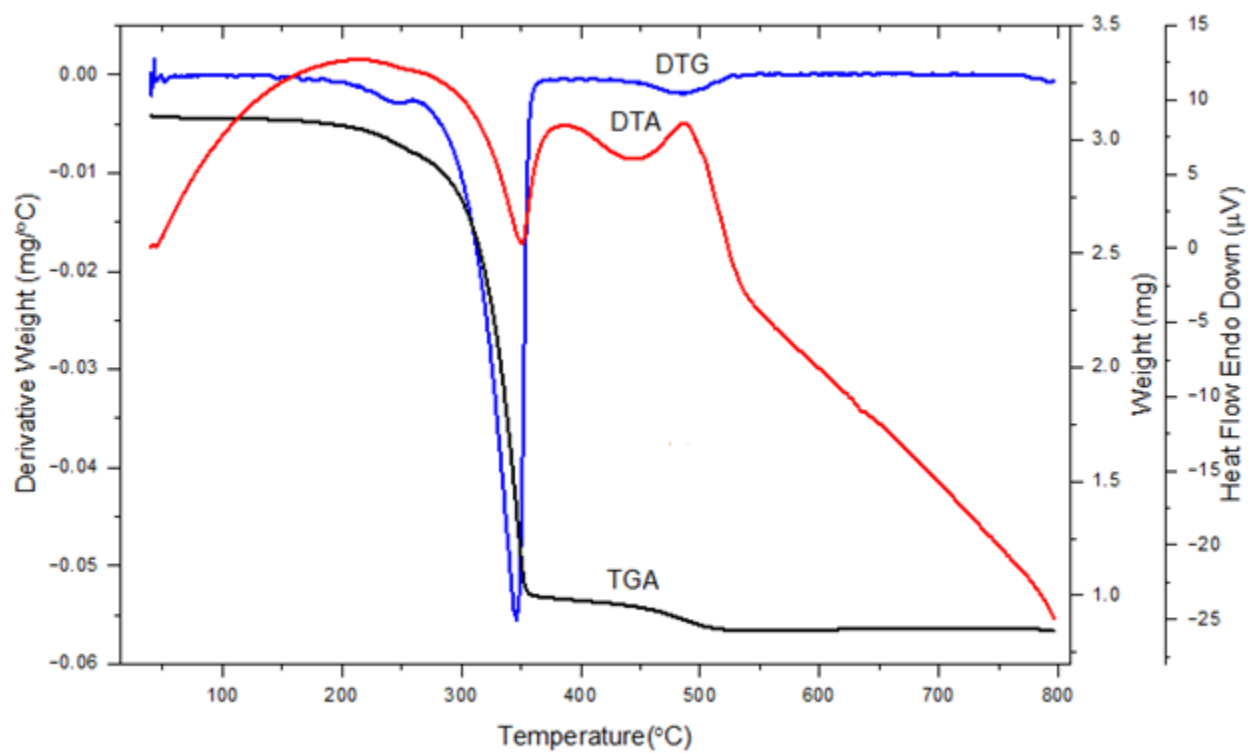


Fig. S4 TGA/DTG/DTA graph of polythioamide PCB