Supplementary Material

Table S1:Kinetics and thermodynamics parameters value calculated by FWO, KAS and Friedman methods at a heating rate of 5°C /min

Method	FWO				KAS				FRIEDMAN			
Conversion	A (s^{-1})	ΔH (kJ/mol)	ΔG (kJ/mol)	ΔS (J/mol)	A (s^{-1})	ΔH (kJ/mol)	ΔG (kJ/mol)	ΔS (J/mol)	A (s^{-1})	ΔH (kJ/mol)	ΔG (kJ/mol)	ΔS (J/mol)
0.2	4.92×10^{16}	193.50	156.18	62.13	2.72×10^{16}	190.61	156.25	57.20	1.52×10^{17}	199.01	156.04	71.53
0.25	3.00×10^{16}	190.98	156.24	57.83	1.72×10^{16}	188.26	156.31	53.18	5.88×10^{17}	205.48	155.88	82.57
0.3	4.25×10^{16}	192.59	156.19	60.59	2.45×10^{16}	189.91	156.26	56.00	2.50×10^{18}	212.45	155.72	94.44
0.35	5.65×10^{16}	193.89	156.16	62.81	3.27×10^{16}	191.22	156.23	58.25	9.81×10^{18}	219.05	155.56	105.68
0.4	2.39×10^{17}	200.84	155.99	74.66	1.36×10^{17}	198.11	156.05	70.01	3.63×10^{19}	225.37	155.42	116.43
0.45	7.67×10^{17}	206.45	155.85	84.23	4.35×10^{17}	203.69	155.92	79.53	2.58×10^{19}	223.63	155.46	113.47
0.5	3.38×10^{17}	202.39	155.94	77.30	1.95×10^{17}	199.71	156.01	72.75	1.87×10^{18}	210.73	155.75	91.52
0.55	1.54×10^{17}	198.50	156.04	70.69	9.10×10^{16}	195.92	156.10	66.29	2.49×10^{17}	200.82	155.98	74.65
0.6	5.36×10^{16}	193.29	156.17	61.80	3.23×10^{16}	190.81	156.23	57.57	3.49×10^{17}	202.42	155.94	77.36
0.65	1.41×10^{17}	197.94	156.05	69.73	8.39×10^{16}	195.40	156.11	65.40	1.20×10^{21}	242.15	155.06	144.96
0.7	1.85×10^{21}	244.12	155.02	148.31	9.55×10^{20}	240.88	155.09	142.81	1.81×10^{31}	357.16	153.15	339.58
Mean	1.68×10^{20}	201.32	155.98	75.46	8.69×10^{19}	198.59	156.05	70.82	1.65×10^{30}	227.11	155.45	119.29