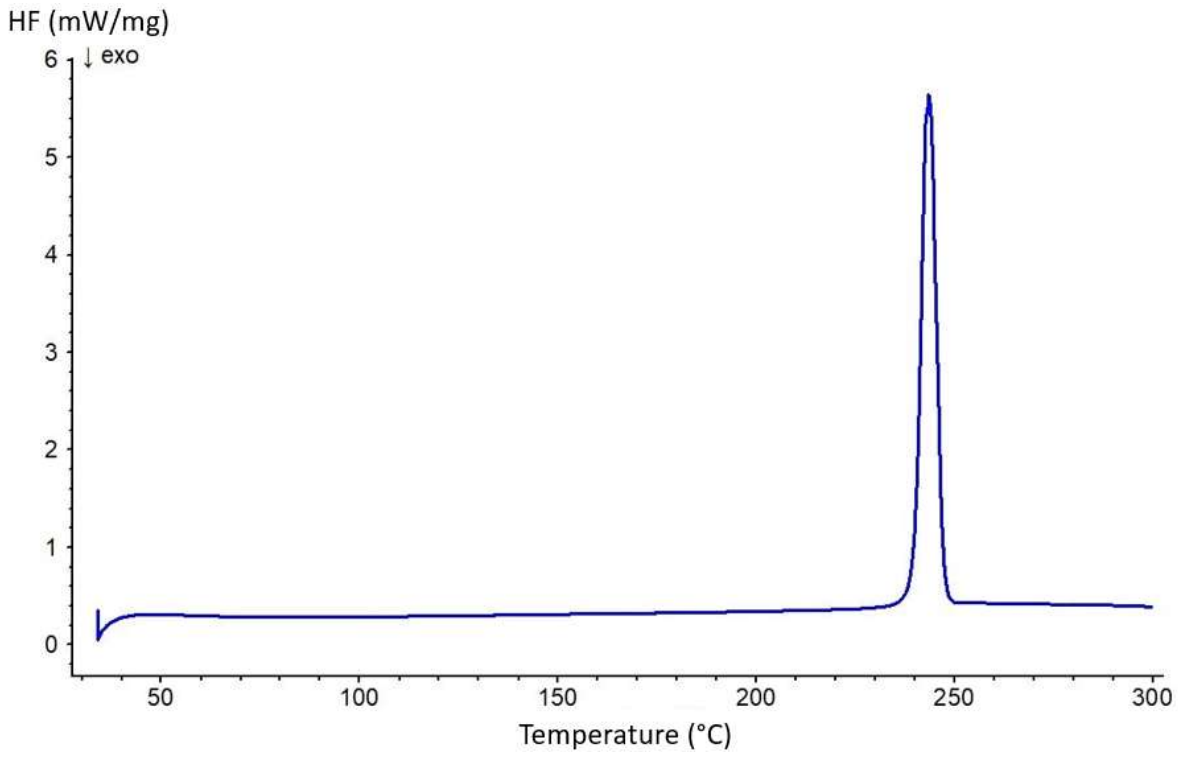


Figure S1. The DSC curve recorded for LNG at β = 10 °C·min^{-1} on 30-300°C temperature range

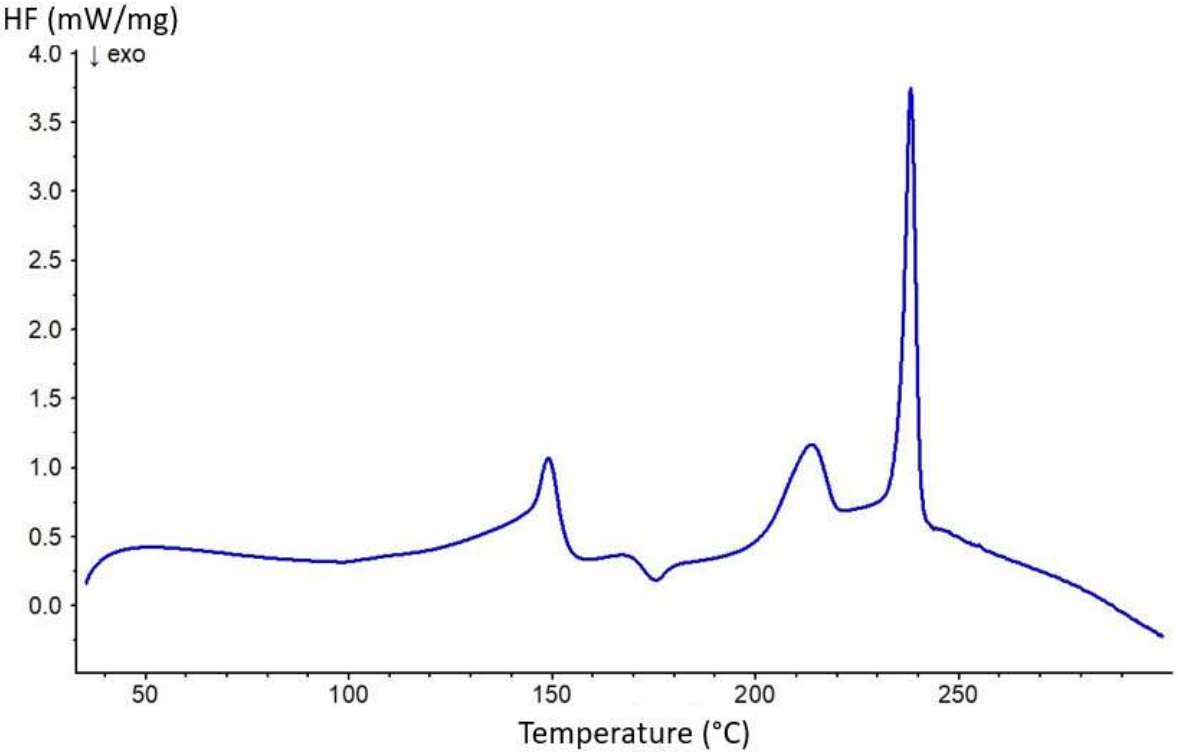


Figure S2. The DSC curve recorded for LNGMIX at β = 10 °C·min^{-1} on 30-300 °C temperature range

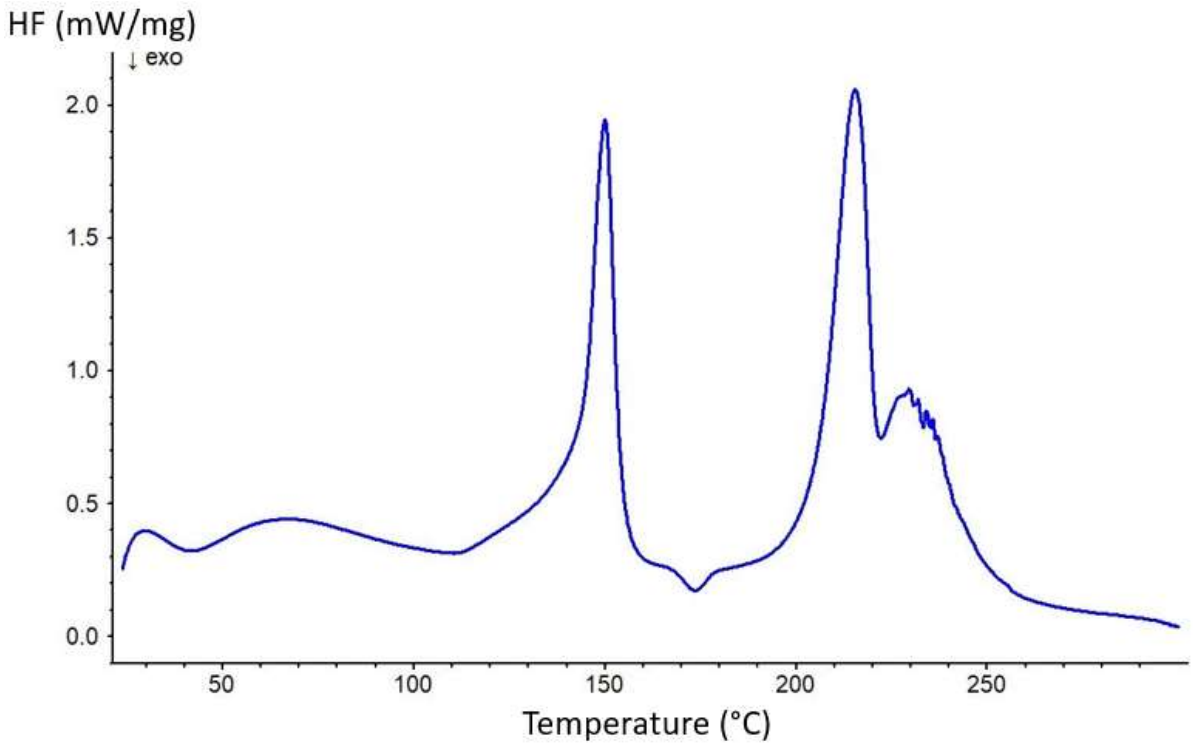


Figure S3. The DSC curve recorded for LNGTAB at β = 10 °C·min^{-1} on 30-300 °C temperature range

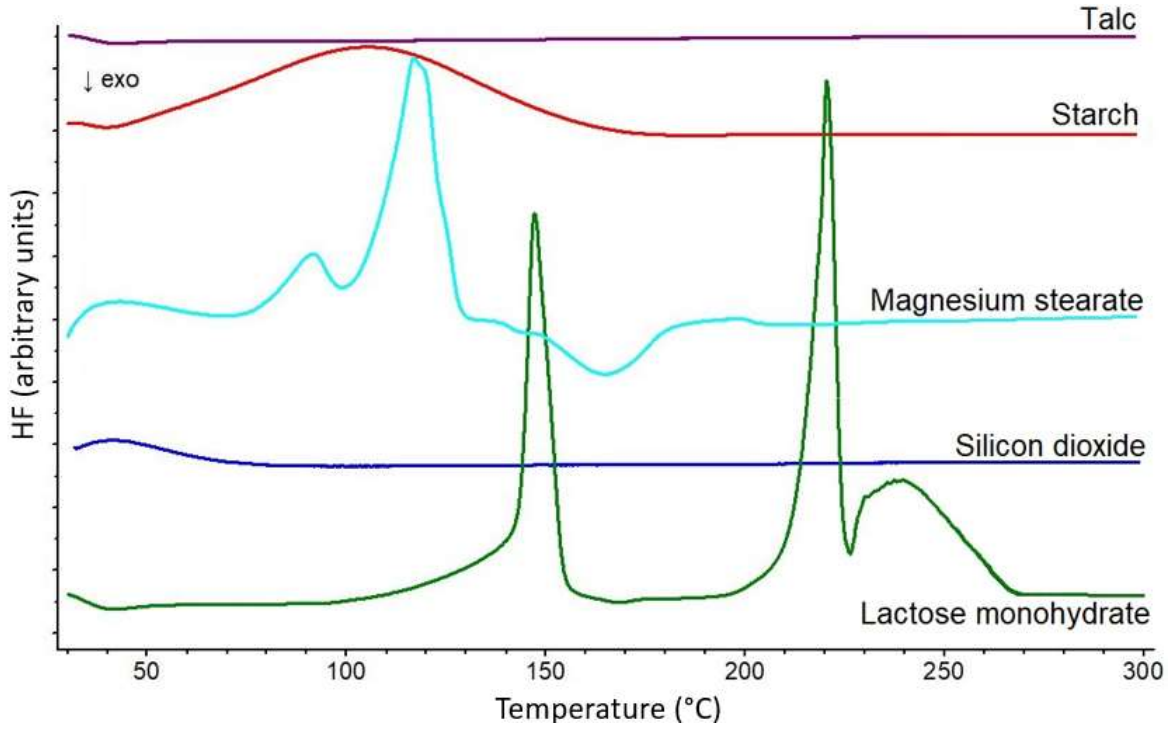


Figure S4. The DSC curve recorded for for the excipients present in the pharmaceutical formulation in dynamic air atmosphere at β = 10 °C·min^{-1}.

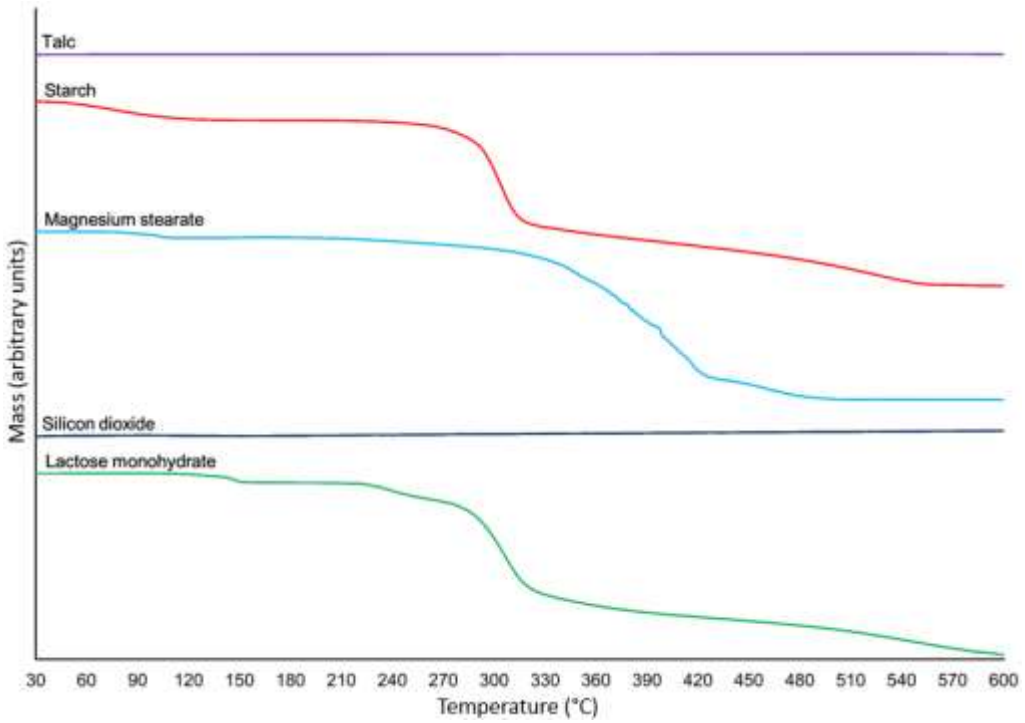


Figure S5. Thermoanalytical data (TG) recorded for the excipients present in the pharmaceutical formulation in dynamic air atmosphere at $\beta = 10$ °C·min^{-1}.

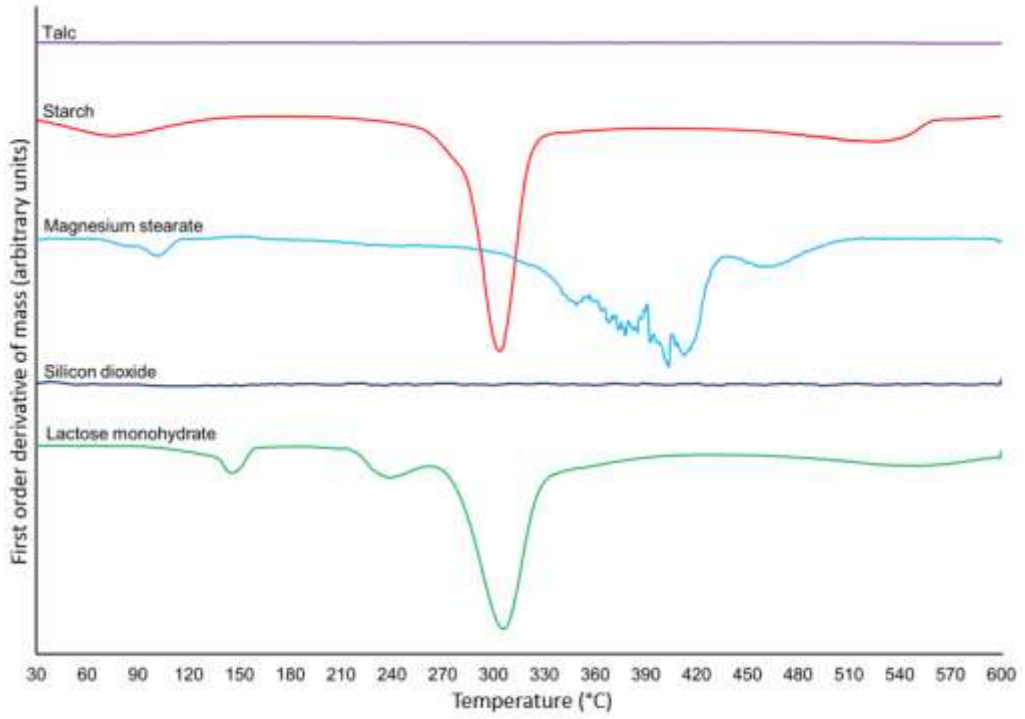
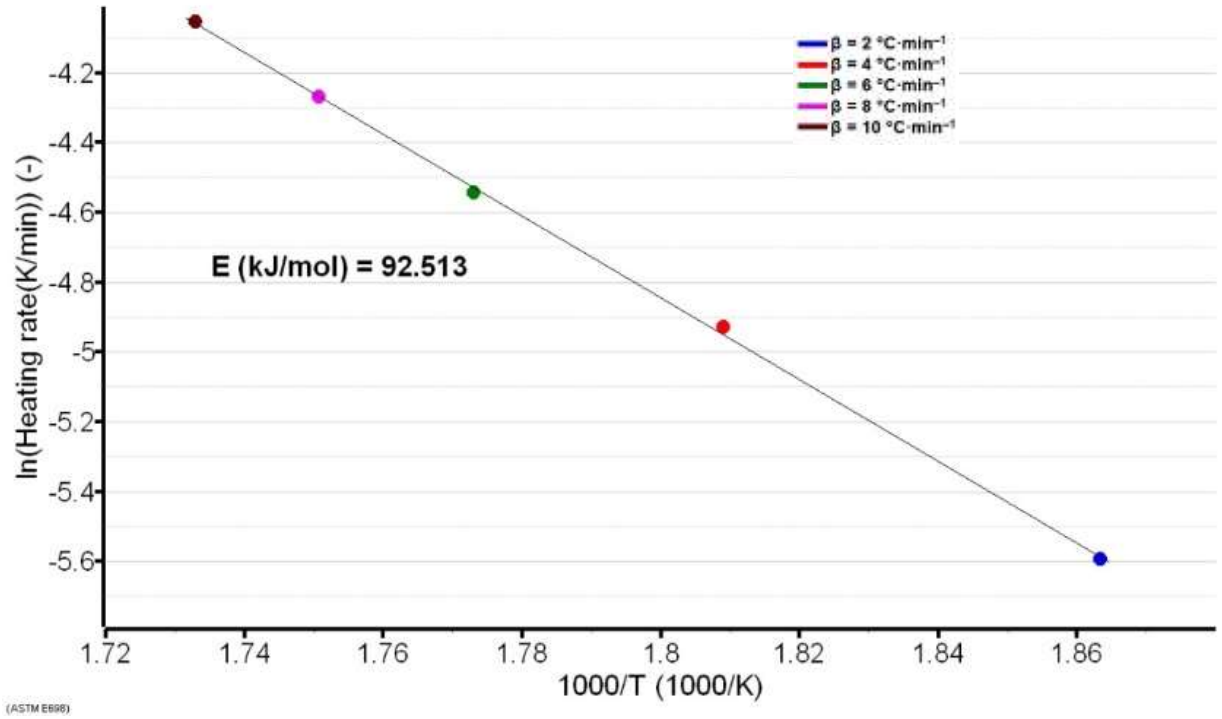
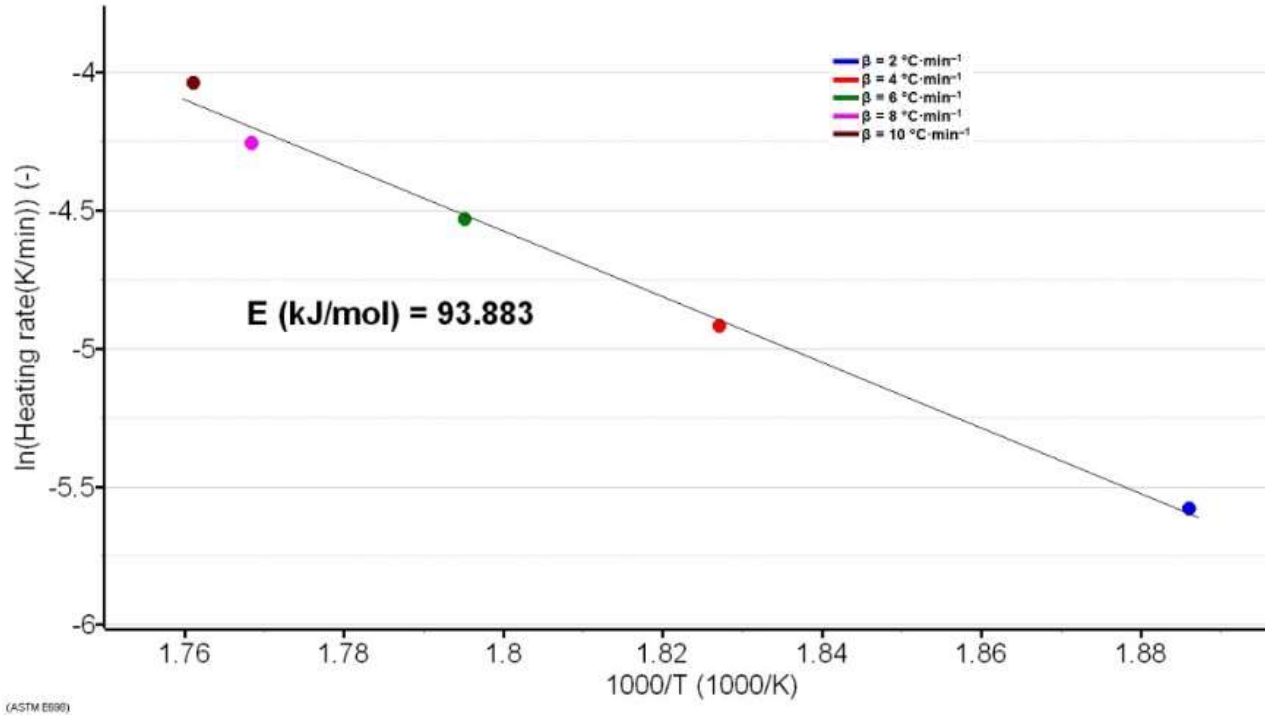


Figure S6. Thermoanalytical data (DTG) recorded for the excipients present in the pharmaceutical formulation in dynamic air atmosphere at $\beta = 10$ °C·min^{-1}.

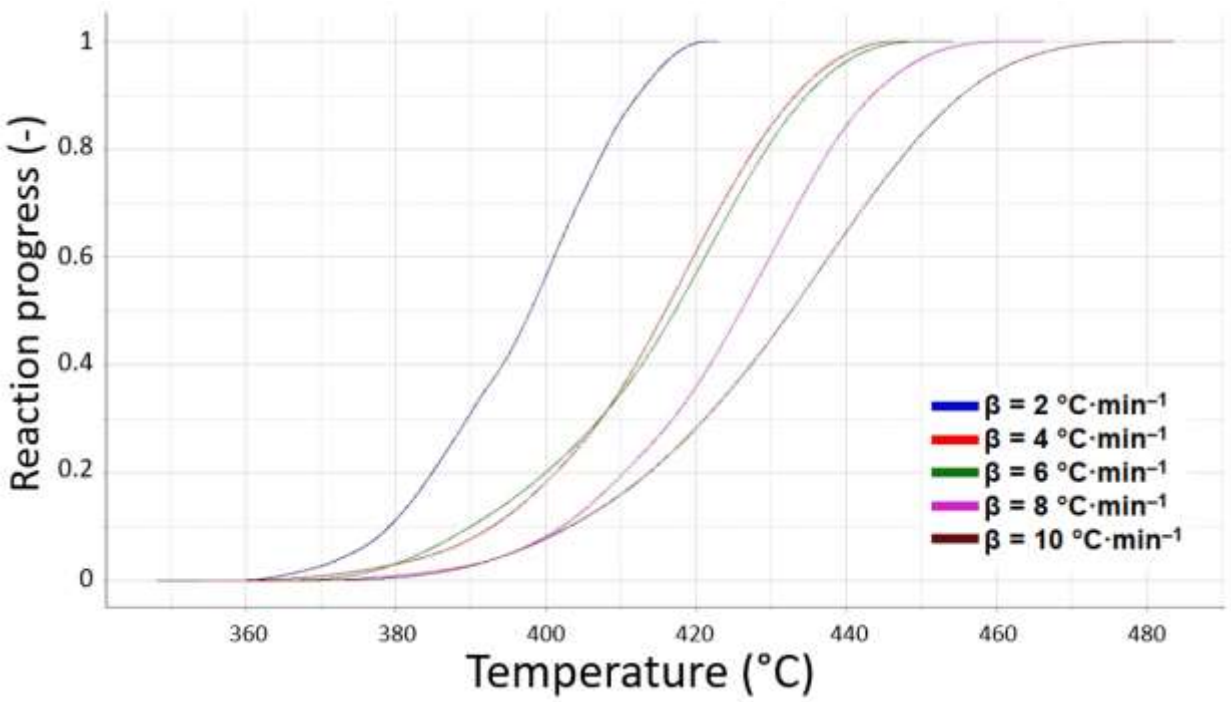


(**a**)

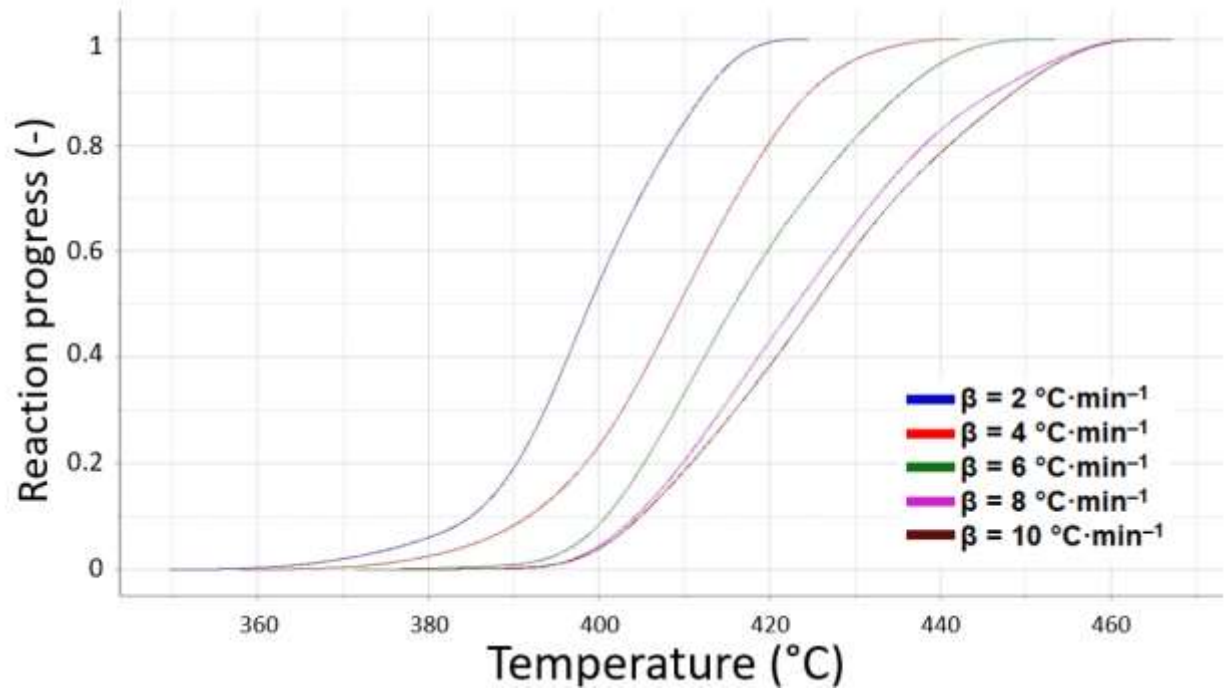


(**b**)

Figure S7. The plot according to the ASTM E698 kinetic method with the estimated activation energy of "process 1" for: (**a**) LNG and (**b**) LNGMIX

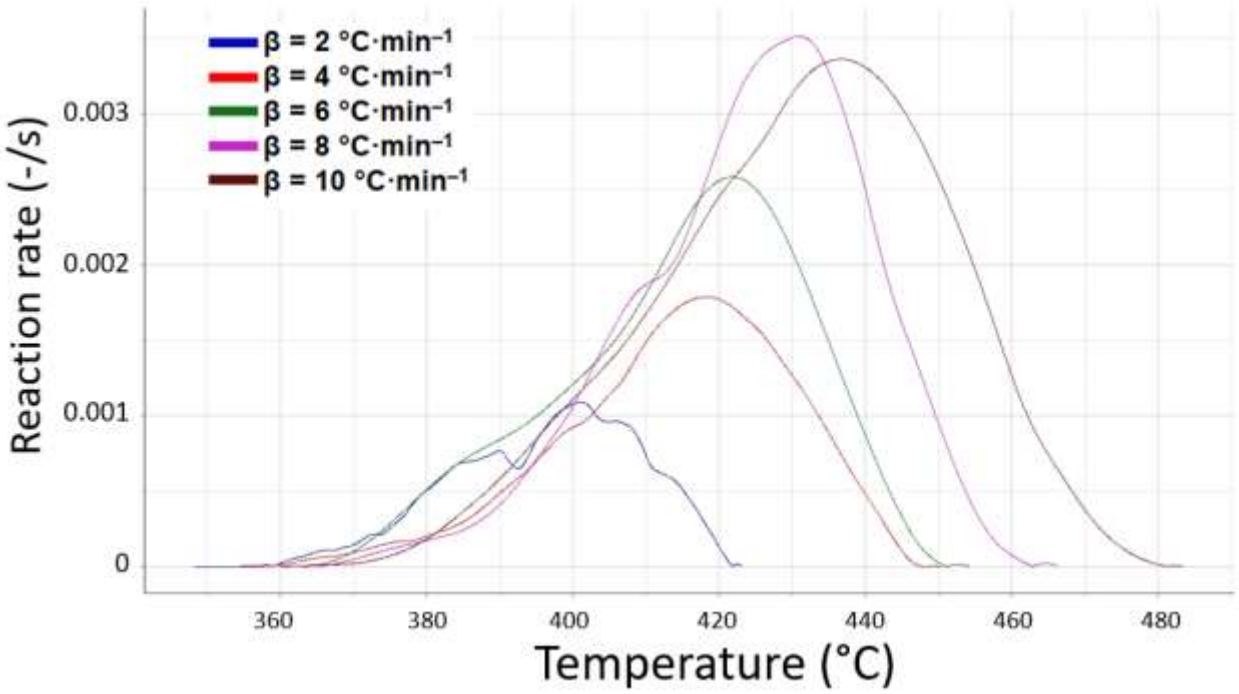


(**a**)

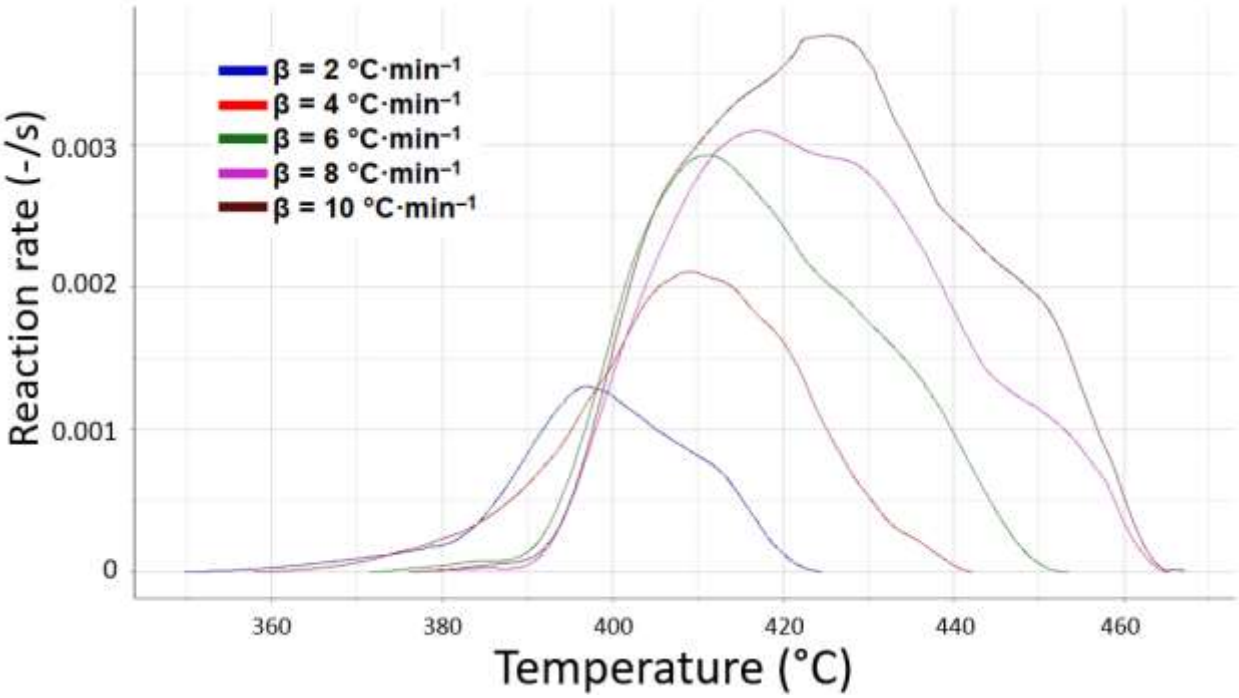


(**b**)

Figure S8. The reaction progress *vs.* temperature for "process 2" at selected heating rates for: (**a**) LNG and (**b**) LNGMIX

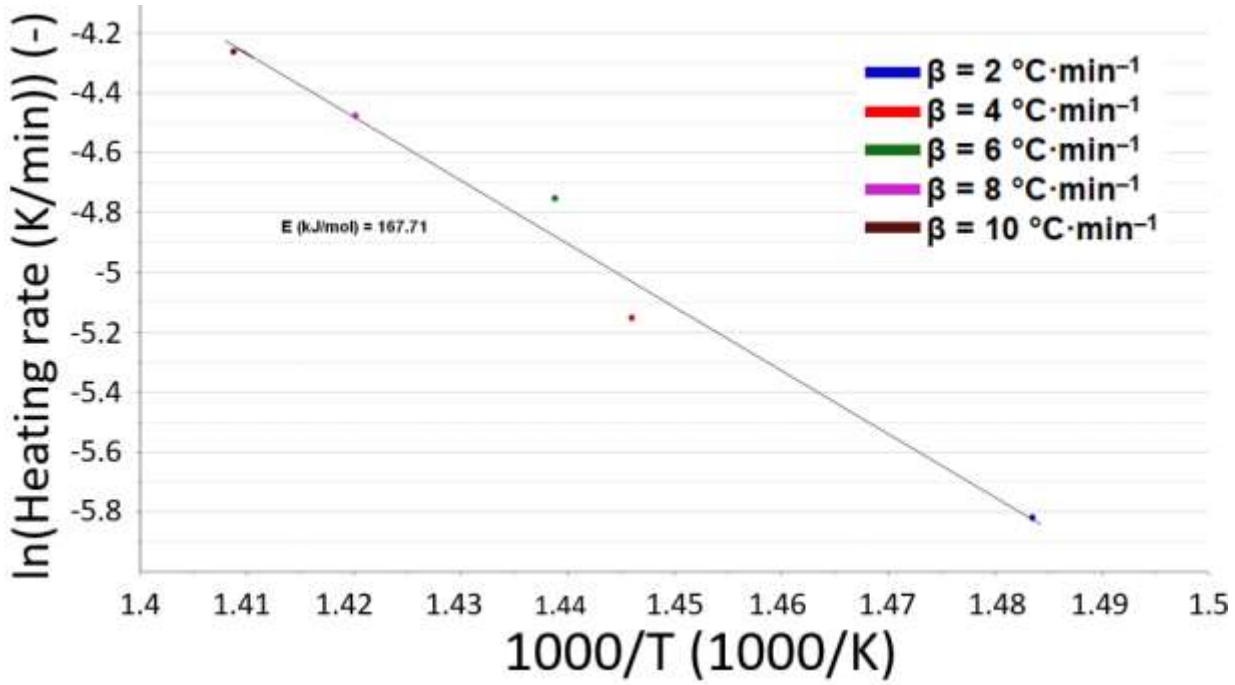


(**a**)

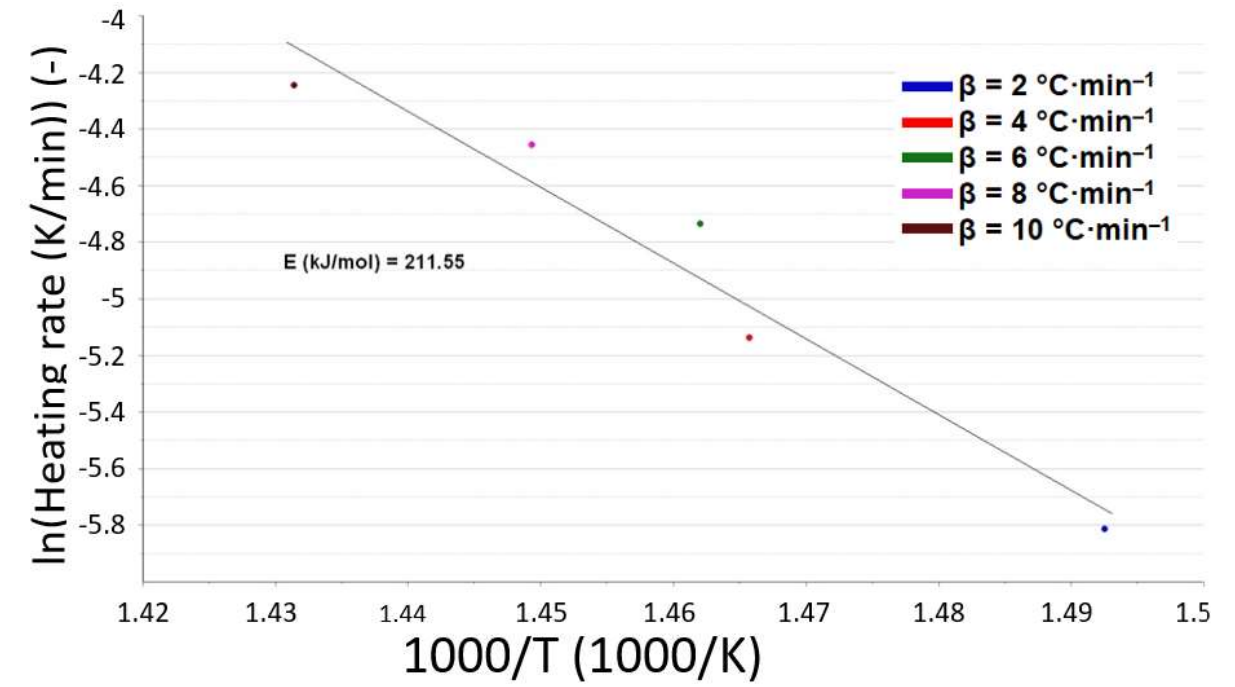


(**b**)

Figure S9. The reaction rate *vs.* temperature for "process 2" at selected heating rates for: (**a**) LNG and (**b**) LNGMIX

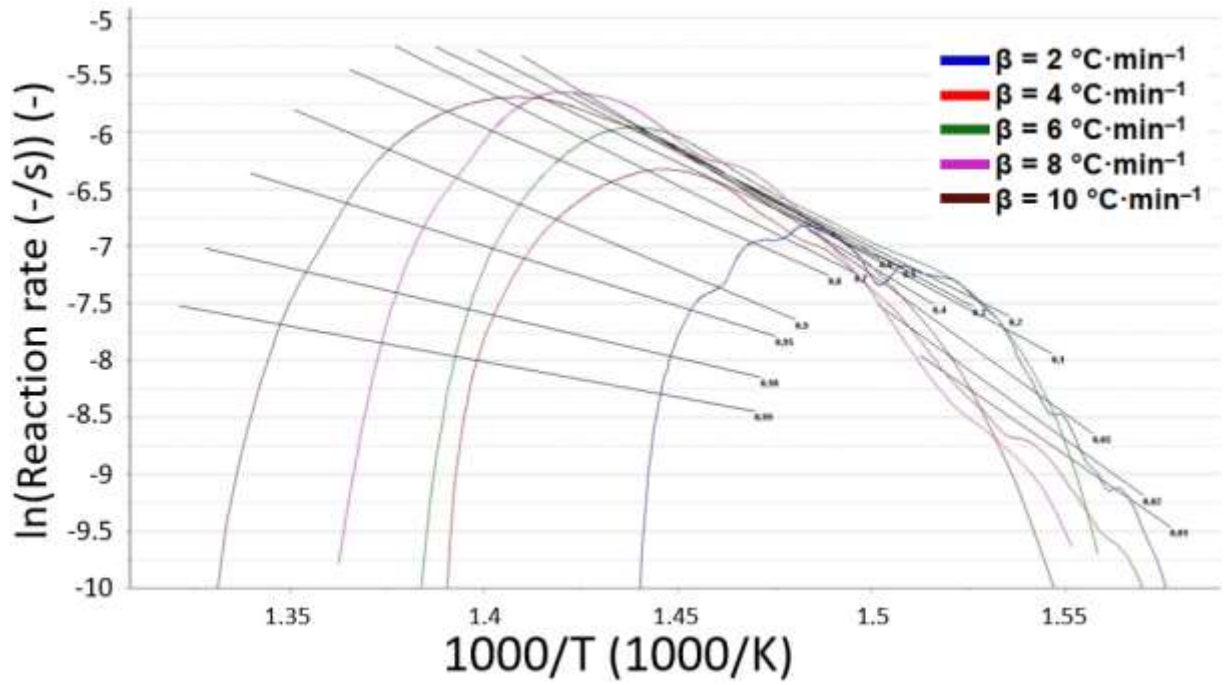


(**a**)

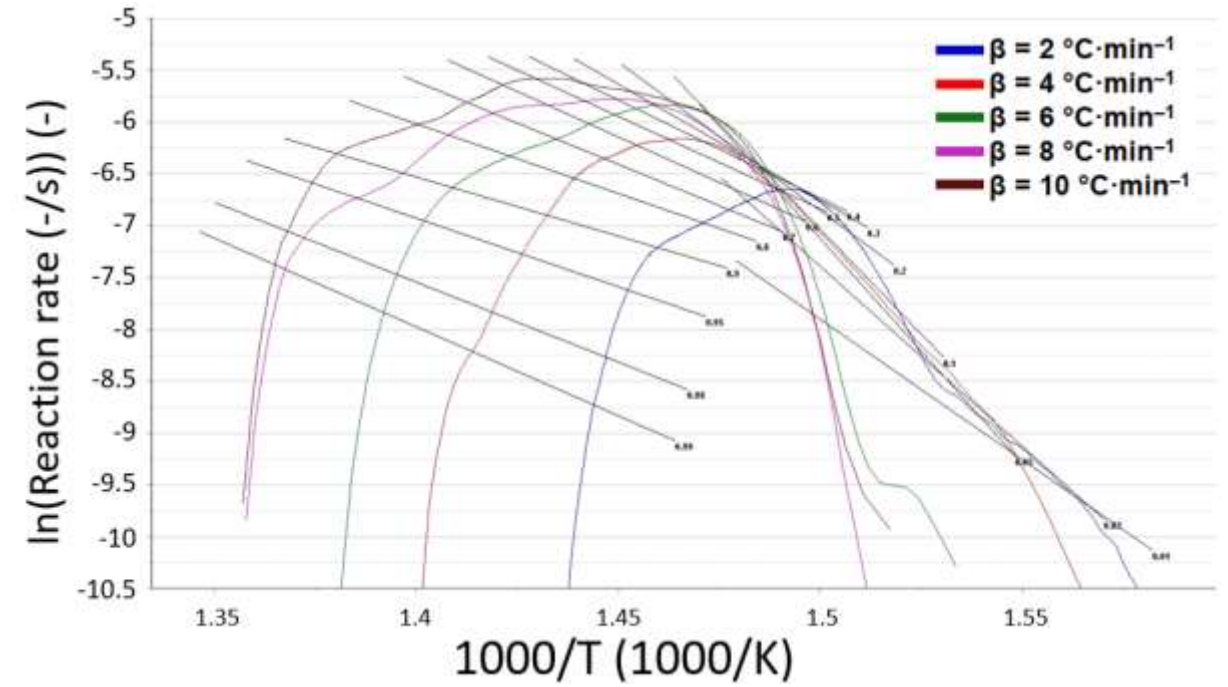


(**b**)

Figure S10. The plot according to the ASTM E698 kinetic method with the estimated activation energy of "process 2" for: (a) LNG and (b) LNGMIX

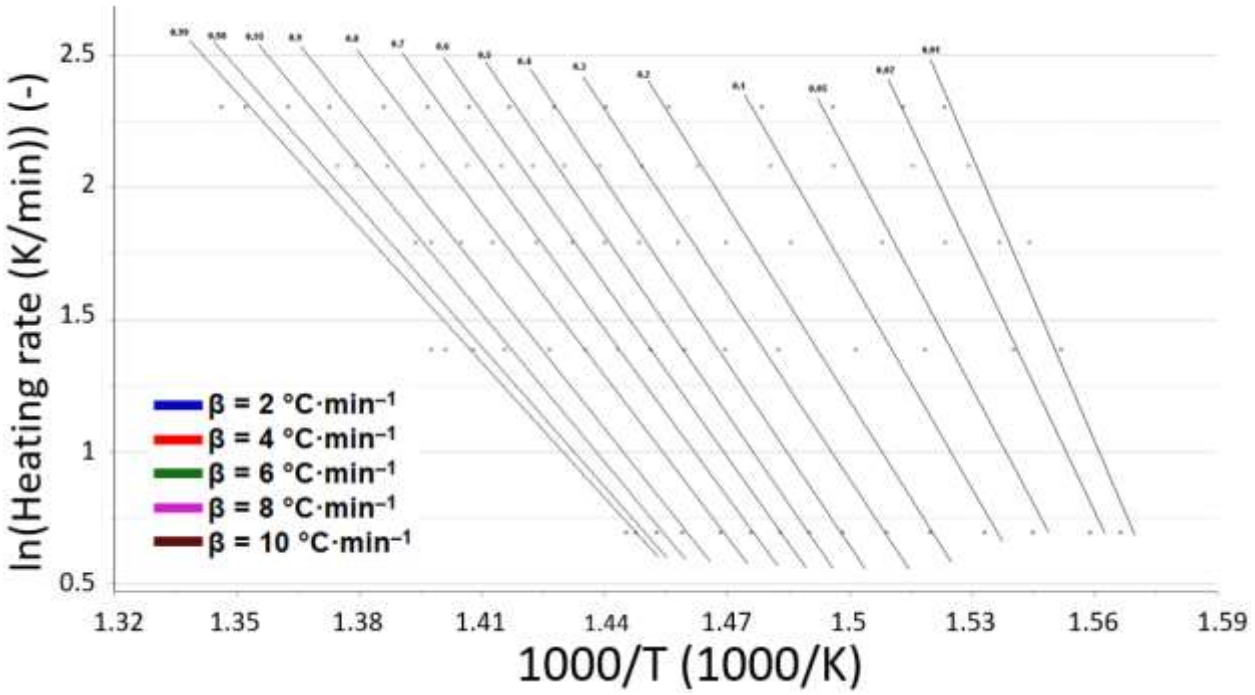


(**a**)

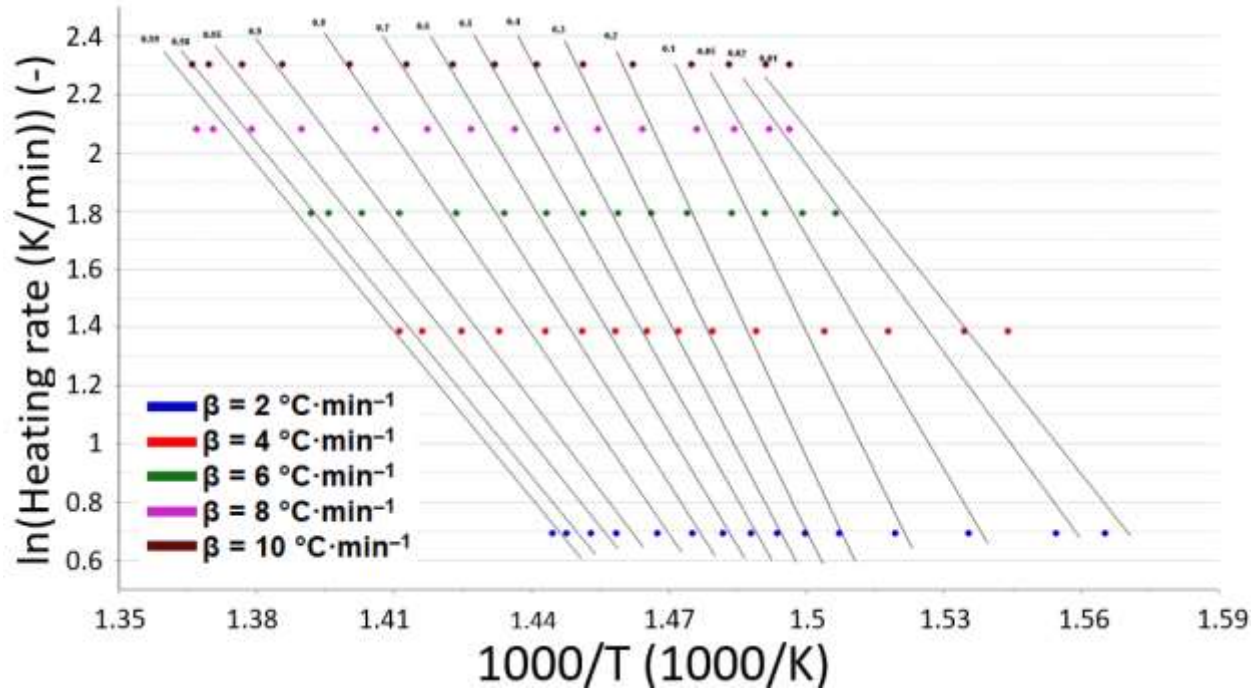


(**b**)

Figure S11. Linear plotting of FR differential isoconversional method of the analyzed "process 2" of decomposition for: (**a**) LNG and (**b**) LNGMIX



(**a**)



(**b**)

Figure S12. Linear plot of FWO integral isoconversional method of the analyzed "process 2" of decomposition process for: (**a**) LNG and (**b**) LNGMIX

Table S1. Variation of Ea vs. α for both samples LNG and LNGMIX for "process 2" using the FR and FWO isoconversional methods

α	Variation of Ea (kJ·mol^{-1}) vs. α for			
	LNG		LNGMIX	
	FR	FWO	FR	FWO
0.05	203.5	228.5	361.3	211.1
0.1	151.3	211.9	338.0	254.4
0.15	146.6	202.1	280.9	266.2
0.2	141.3	194.4	239.3	265.5
0.25	146.9	188.4	210.4	259.9
0.3	151.0	184.4	186.5	252.3
0.35	174.9	182.2	168.1	243.7
0.4	170.4	182.3	157.1	235.0
0.45	154.1	180.5	152.7	227.0
0.5	144.7	177.9	147.9	219.6
0.55	139.2	175.0	146.9	212.8
0.6	134.7	172.1	145.7	206.7
0.65	136.2	169.2	139.5	200.8
0.7	139.1	166.7	133.2	194.7
0.75	130.4	164.1	122.0	188.1
0.8	121.8	160.9	111.5	180.7
0.85	122.5	157.3	99.5	172.4
0.9	118.5	153.9	94.6	163.1
0.95	87.8	147.5	109.6	154.8
$\bar{E}_a$ **/ kJ·mol^{-1}**	142.9±5.6	178.9±4.7	176.0±17.7	216.2±8.1