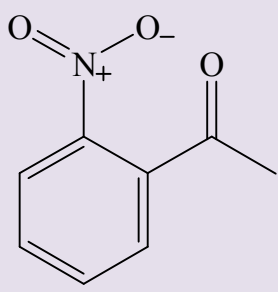
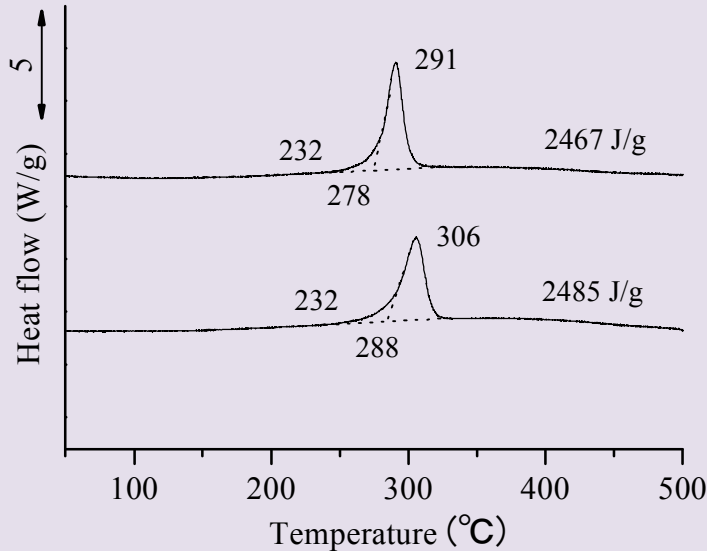
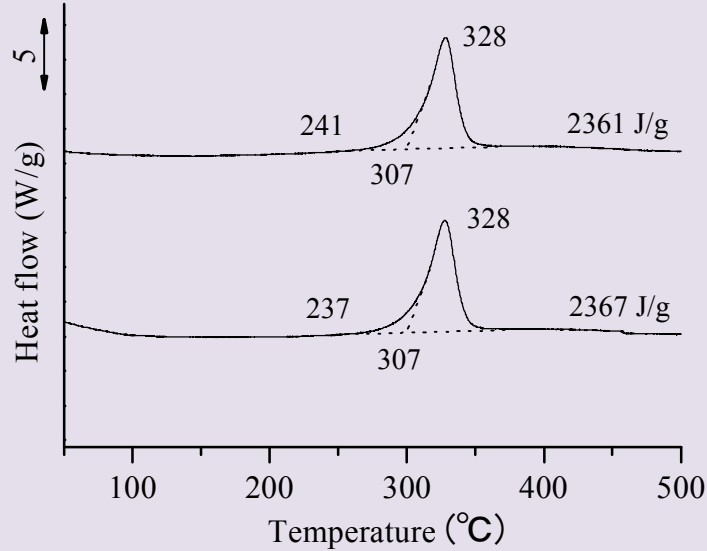
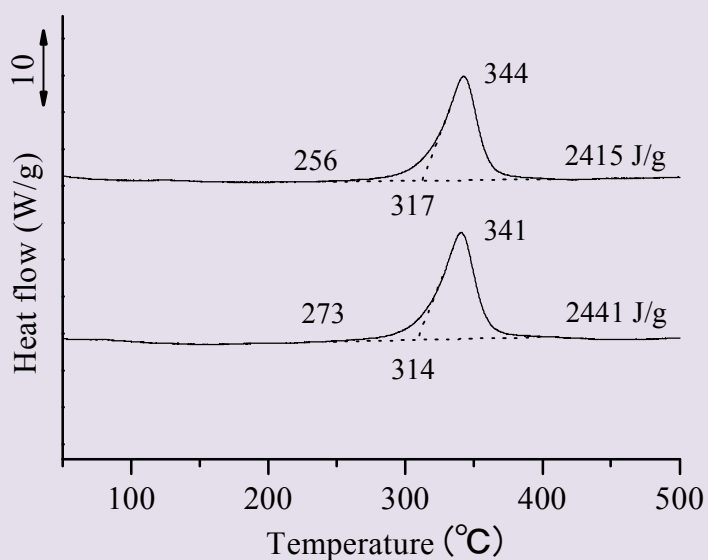


o-Nitroacetophenone	C ₈ H ₇ NO ₃ oNAP
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: Wako (≥ 98.0%)
a) 2 K/min Wako: 和光純薬工業株式会社	
	<p><Average></p> <p>T_a: 232 °C</p> <p>T_o: 283 °C</p> <p>T_{top}: 299 °C</p> <p>Q_{DSC}: 2476 J/g</p>
b) 5 K/min	
	<p><Average></p> <p>T_a: 239 °C</p> <p>T_o: 307 °C</p> <p>T_{top}: 328 °C</p> <p>Q_{DSC}: 2364 J/g</p>

c) 10 K/min



<Average>

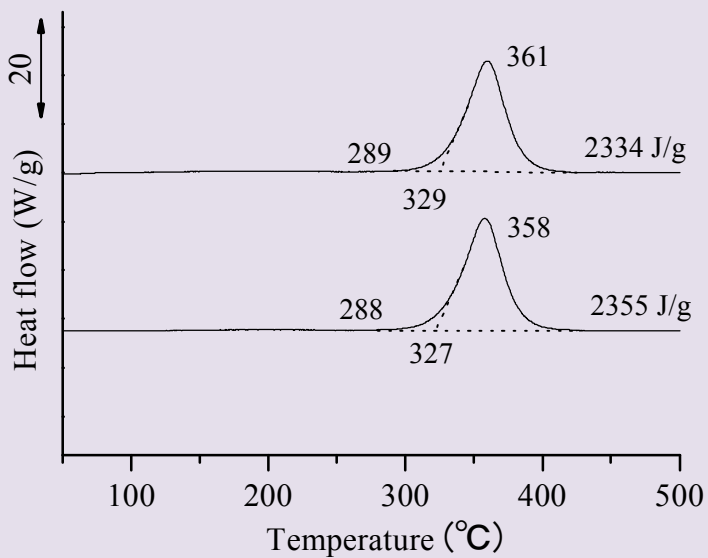
T_a : 265 °C

T_o : 316 °C

T_{top} : 343 °C

Q_{DSC} : 2428 J/g

d) 20 K/min



<Average>

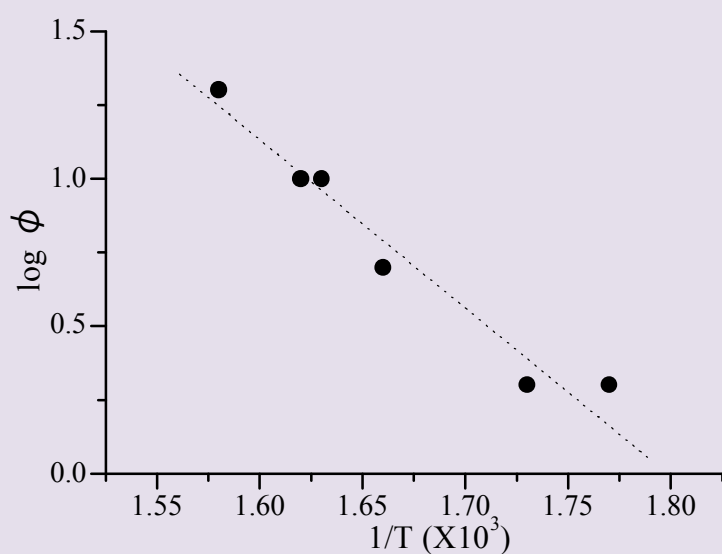
T_a : 289 °C

T_o : 328 °C

T_{top} : 360 °C

Q_{DSC} : 2345 J/g

ASTM PLOT



$\Delta E : 107 \text{ kJ/mol}$
 $A : 6.60 \times 10^{18}$
 $r : -0.97622$

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	291	564	1.77	0.301
	306	579	1.73	0.301
5	328	601	1.66	0.699
	328	601	1.66	0.699
10	344	617	1.62	1.00
	341	614	1.63	1.00
20	361	634	1.58	1.30
	358	631	1.58	1.30