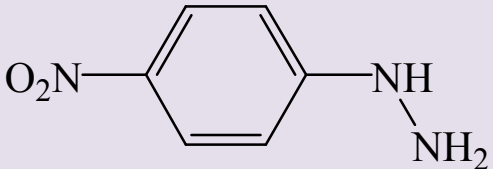
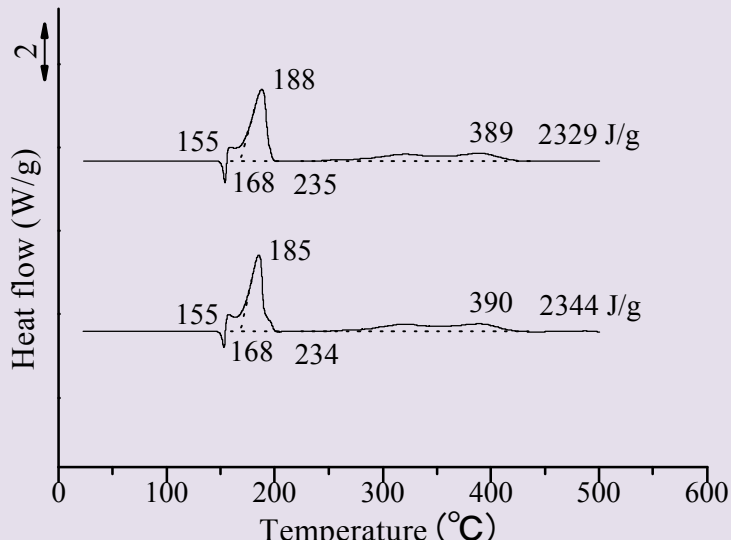
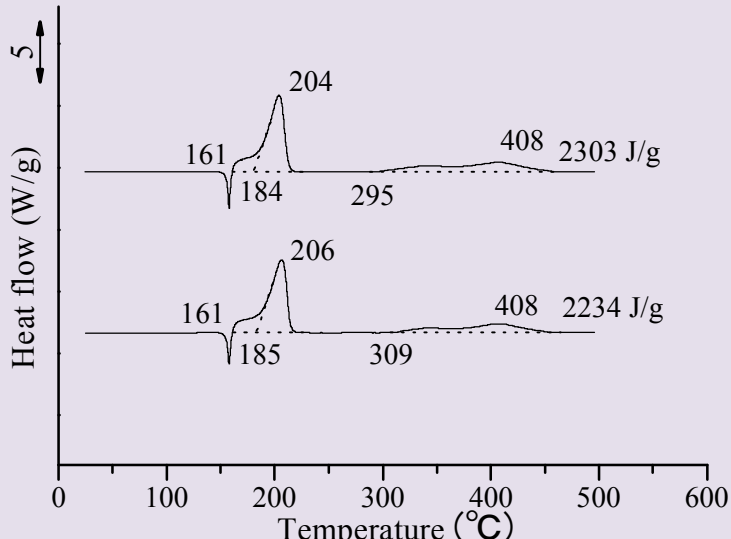
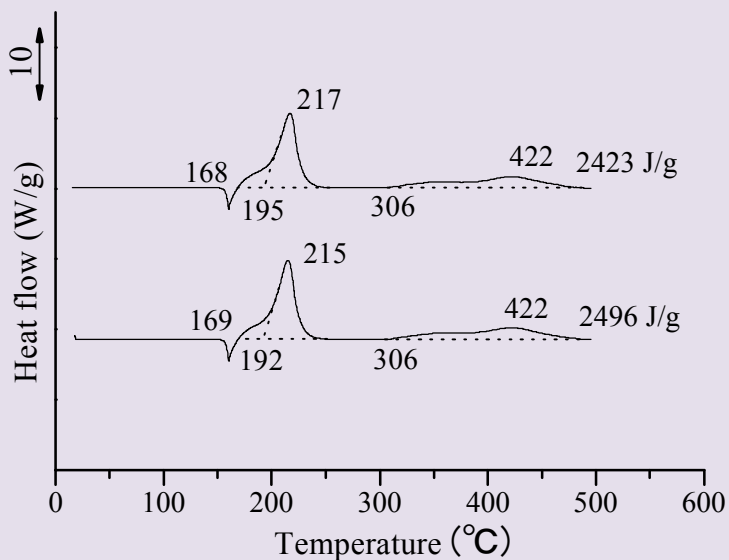


<p>p-Nitrophenylhydrazine</p>	<p>$C_6H_7N_3O_2$ pNPH</p>
	<p>DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: TGI (> 95.0%)</p>
<p>a) 2 K/min TGI: 東京化成工業株式会社</p>	
	<p>< Average > T_a: 155 °C T_o: 168 °C T_{top}: 187 °C Q_{DSC}: 2337 J/g</p>
<p>b) 5 K/min</p>	
	<p>< Average > T_a: 161 °C T_o: 185 °C T_{top}: 205 °C Q_{DSC}: 2269 J/g</p>

c) 10 K/min



<Average>

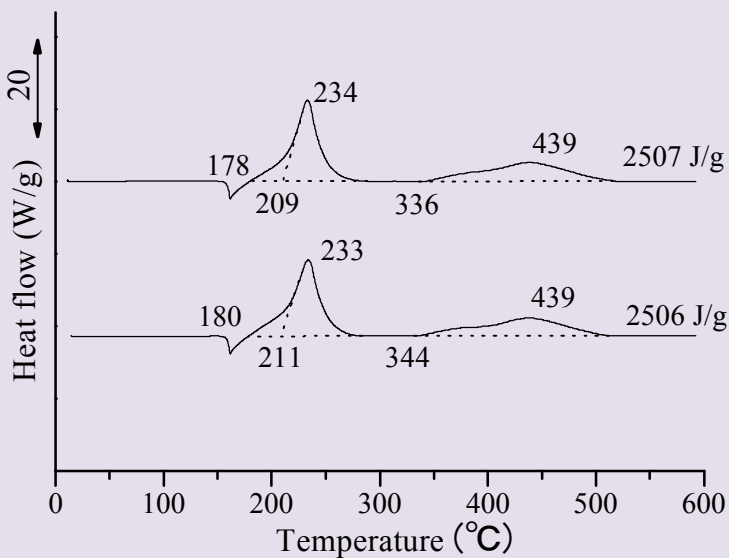
T_a : 269 °C

T_o : 294 °C

T_{top} : 216 °C

Q_{DSC} : 2460 J/g

d) 20 K/min



<Average>

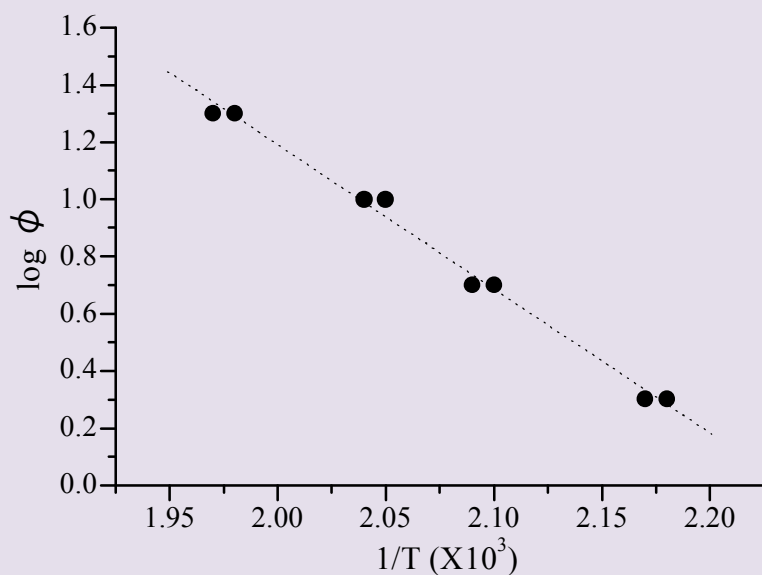
T_a : 179 °C

T_o : 210 °C

T_{top} : 234 °C

Q_{DSC} : 2507 J/g

ASTM PLOT



Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	188	461	2.17	0.301
	185	458	2.18	0.301
5	204	477	2.10	0.699
	206	479	2.09	0.699
10	217	490	2.04	1.00
	215	488	2.05	1.00
20	234	507	1.97	1.30
	233	506	1.98	1.30