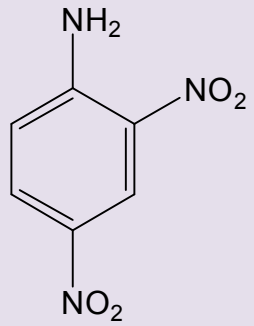
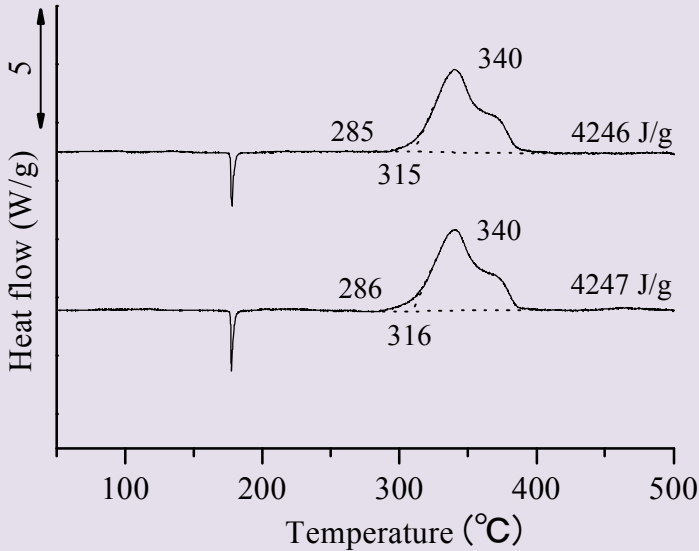
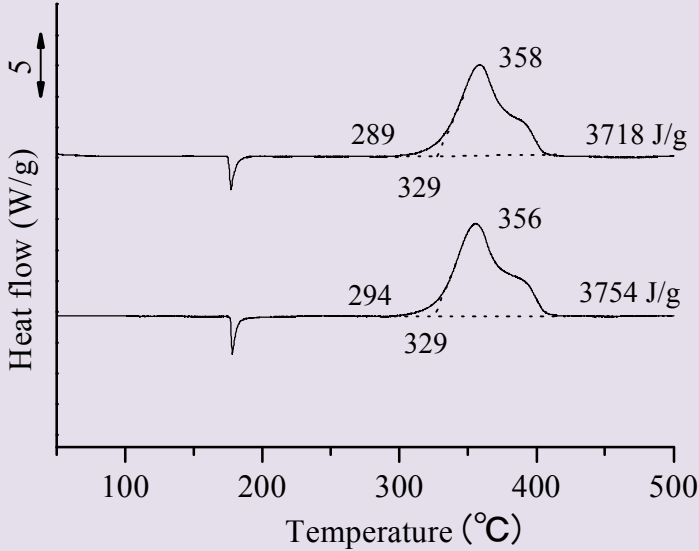
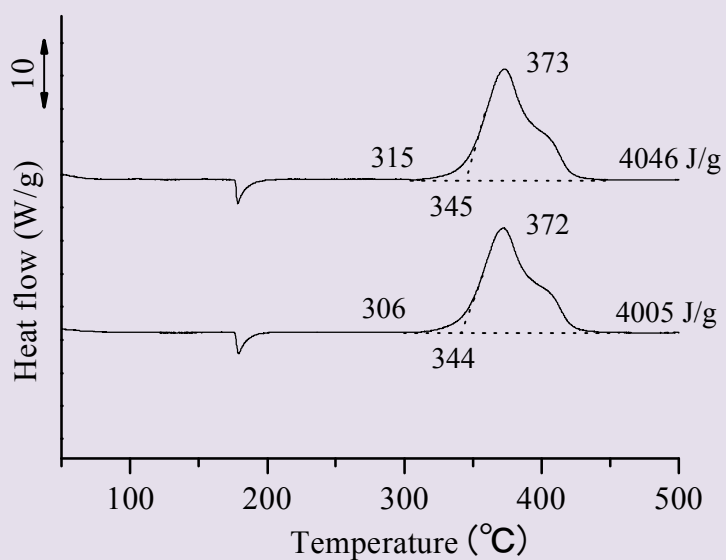


<p>2,4-dinitroaniline</p>	<p><math>C_6H_5N_3O_4</math> DNA</p>
	<p>DSC device: DSC8270B                  Rigaku Corp.                  dT/dt: 2, 5, 10, 20 K/min                  Atmosphere: Air                  Vesel: pressure vessel (SUS)                  Rigaku Corp.                  Sample: AlfaAesar (&gt; 99%)</p>
<p>a) 2 K/min <span style="float: right;">AlfaAesar: AlfaAesar社 (販売 和光純薬工業株式会社)</span></p>	
	<p>&lt;Average&gt;  <math>T_a</math>: 286 °C  <math>T_o</math>: 316 °C  <math>T_{top}</math>: 340 °C  <math>Q_{DSC}</math>: 4247 J/g</p>
<p>b) 5 K/min</p>	
	<p>&lt;Average&gt;  <math>T_a</math>: 292 °C  <math>T_o</math>: 329 °C  <math>T_{top}</math>: 357 °C  <math>Q_{DSC}</math>: 3736 J/g</p>

c) 10 K/min



<Average>

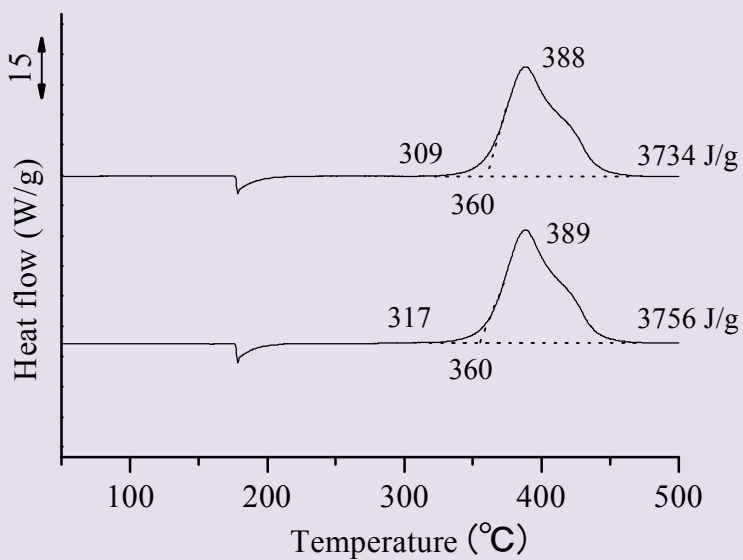
$T_a$  : 311 °C

$T_o$  : 345 °C

$T_{top}$  : 373 °C

$Q_{DSC}$  : 4026 J/g

d) 20 K/min



<Average>

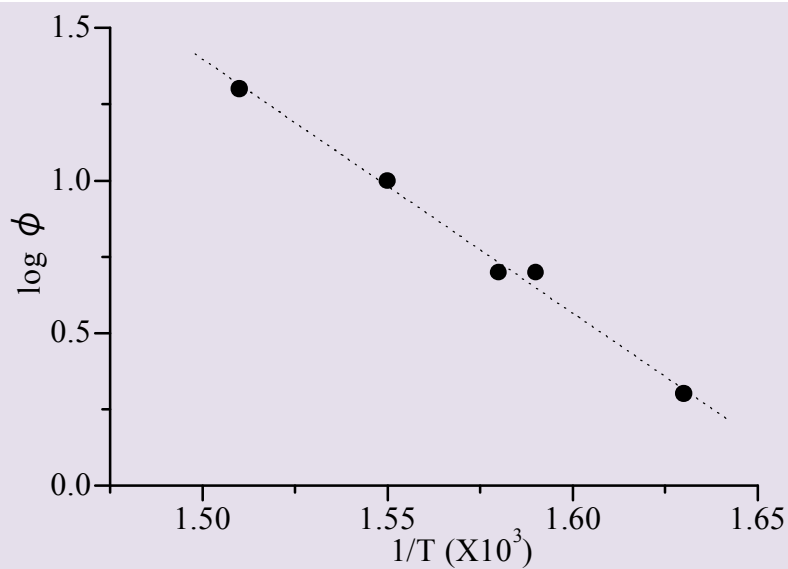
$T_a$  : 313 °C

$T_o$  : 360 °C

$T_{top}$  : 389 °C

$Q_{DSC}$  : 3745 J/g

## ASTM PLOT



Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ ( $^{\circ}\text{C}$ )	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	340	613	1.63	0.301
	340	613	1.63	0.301
5	358	631	1.58	0.699
	356	629	1.59	0.699
10	373	646	1.55	1.00
	372	645	1.55	1.00
20	388	661	1.51	1.30
	389	662	1.51	1.30