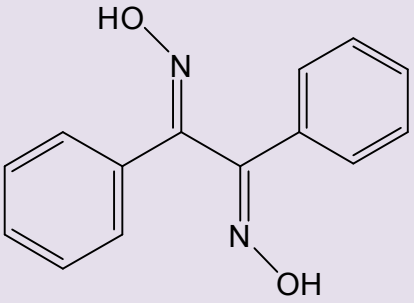
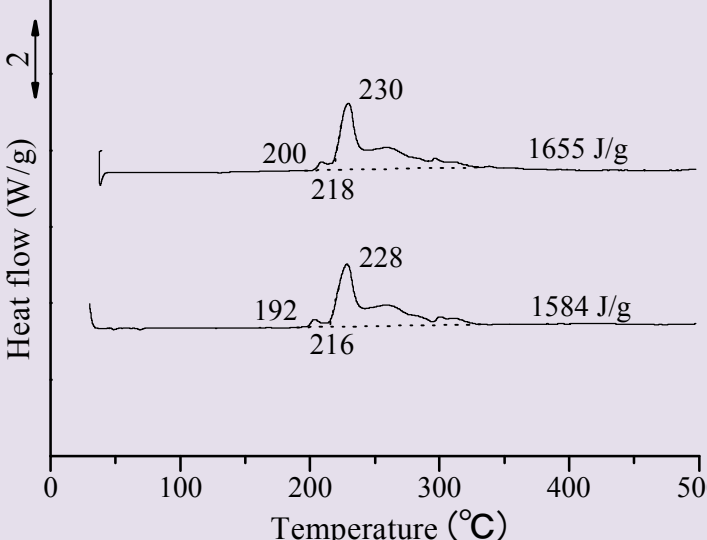
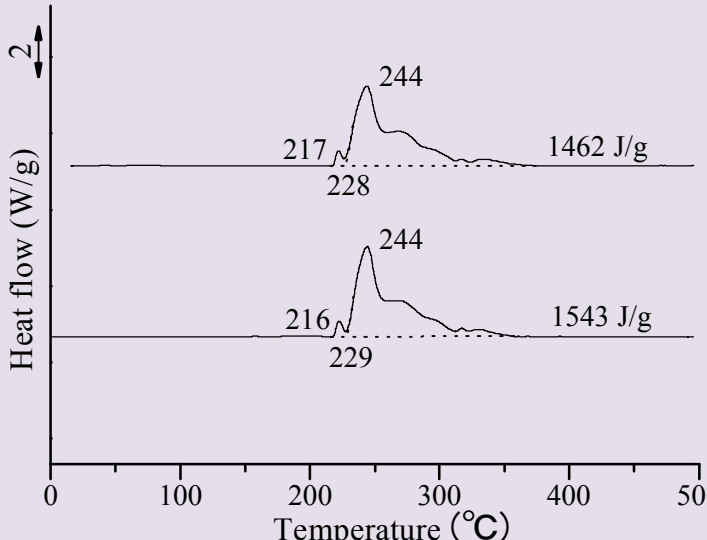
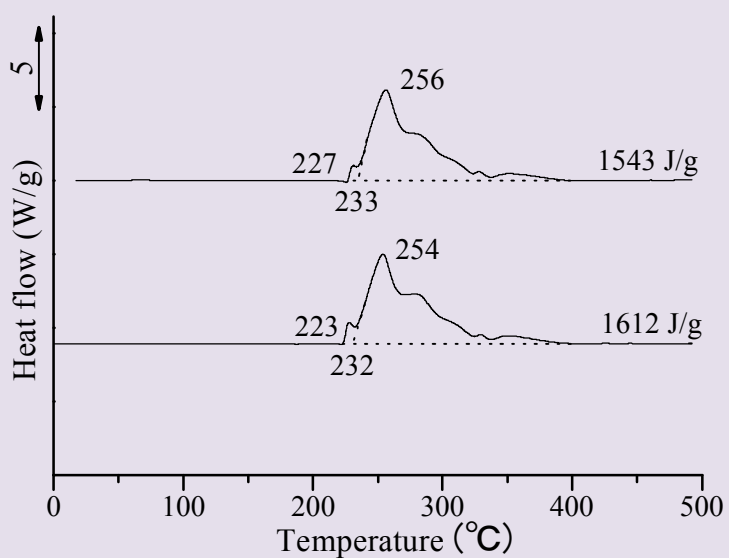


<p>Diphenylglyoxime</p>	<p><math>C_{14}H_{12}N_2O_2</math> BDO</p>
	<p>DSC device: SII DSC 7020                  SII Nano Technology Inc.                  dT/dt: 2, 5, 10, 20 K/min                  Atmosphere: Air                  Vesel: pressure vessel (SUS)                  SII Nano Technology Inc.                  Sample: AlfaAesar (&gt; 98%)</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>: 196 °C  <math>T_o</math>: 217 °C  <math>T_{top}</math>: 229 °C  <math>Q_{DSC}</math>: 1620 J/g</p>
<p>b) 5 K/min</p>	
	<p>&lt;Average&gt;  <math>T_a</math>: 217 °C  <math>T_o</math>: 229 °C  <math>T_{top}</math>: 244 °C  <math>Q_{DSC}</math>: 1503 J/g</p>

c) 10 K/min



< Average >

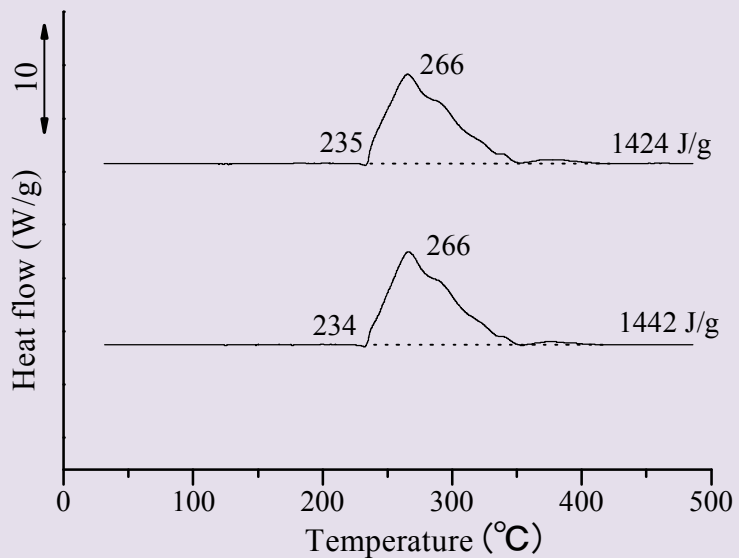
$T_a$  : 225 °C

$T_o$  : 233 °C

$T_{top}$  : 255 °C

$Q_{DSC}$  : 1578 J/g

d) 20 K/min



< Average >

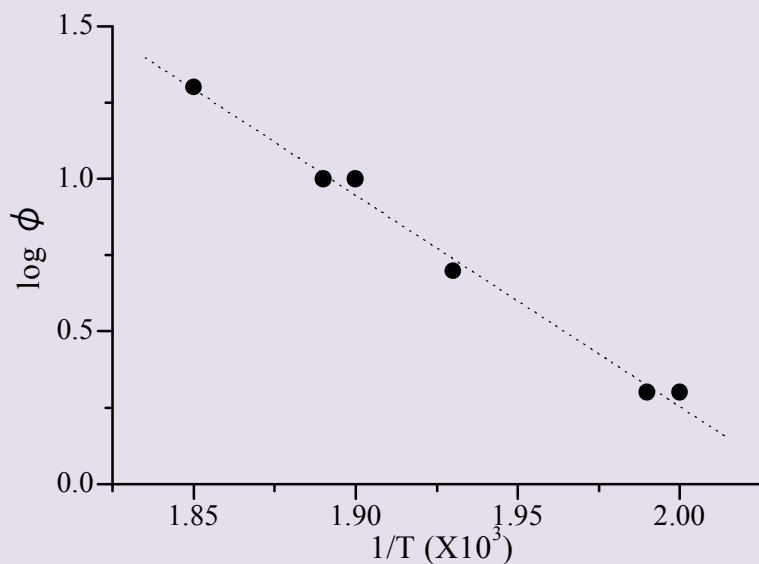
$T_a$  : 235 °C

$T_o$  : 235 °C

$T_{top}$  : 266 °C

$Q_{DSC}$  : 1433 J/g

## ASTM PLOT



$\Delta E : 129 \text{ kJ/mol}$   
 $A : 8.43 \times 10^{22}$   
 $r : -0.99584$

Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ (°C)	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	230	503	1.99	0.301
	228	501	2.00	0.301
5	244	517	1.93	0.699
	244	517	1.93	0.699
10	256	529	1.89	1.00
	254	527	1.90	1.00
20	266	539	1.85	1.30
	266	539	1.85	1.30