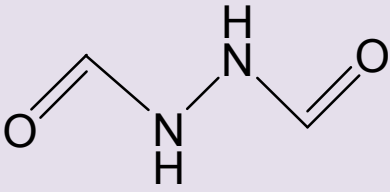
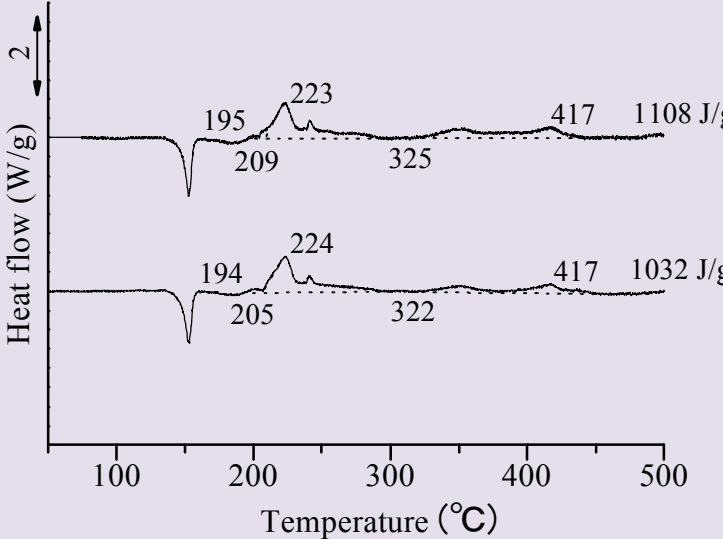
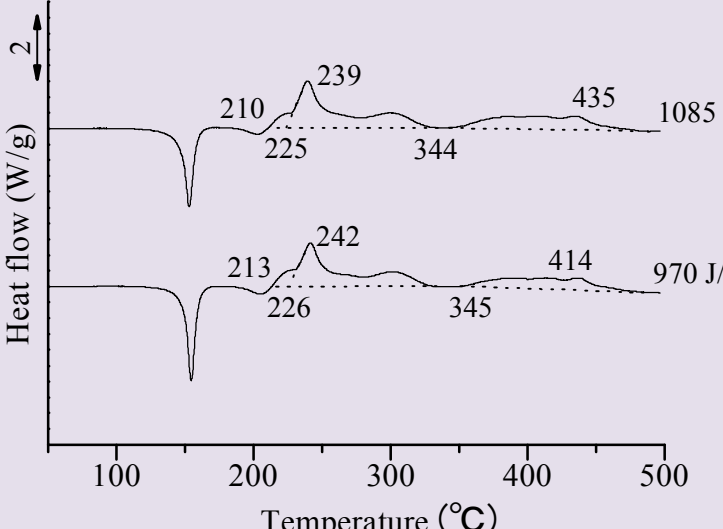
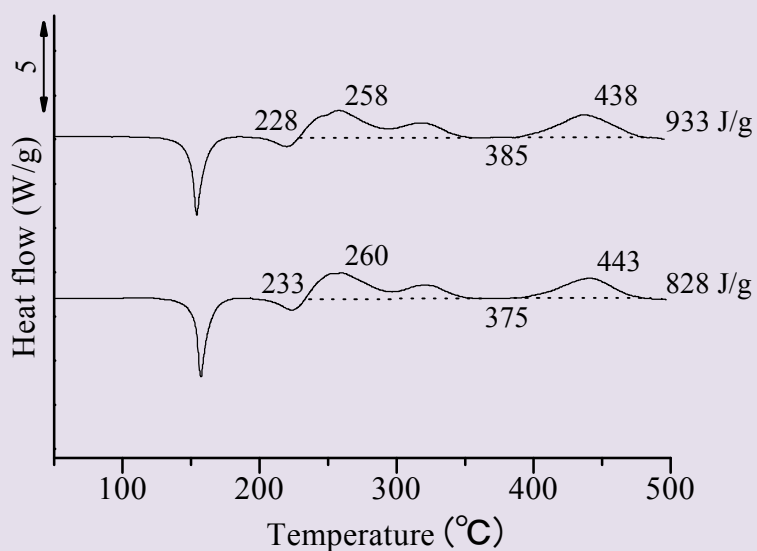


1,2-Diformylhydrazine	$C_2H_4N_2O_2$ DFH
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: Wako ( $\geq 96.0\%$ )
a) 2 K/min <span style="float: right;">Wako: 和光純薬工業株式会社</span>	
 <div style="float: right; margin-top: 20px;">                 &lt;Average&gt;  <math>T_a</math>: 195 °C  <math>T_o</math>: 207 °C  <math>T_{top}</math>: 224 °C  <math>Q_{DSC}</math>: 1070 J/g             </div>	
b) 5 K/min	
 <div style="float: right; margin-top: 20px;">                 &lt;Average&gt;  <math>T_a</math>: 212 °C  <math>T_o</math>: 226 °C  <math>T_{top}</math>: 241 °C  <math>Q_{DSC}</math>: 1028 J/g             </div>	

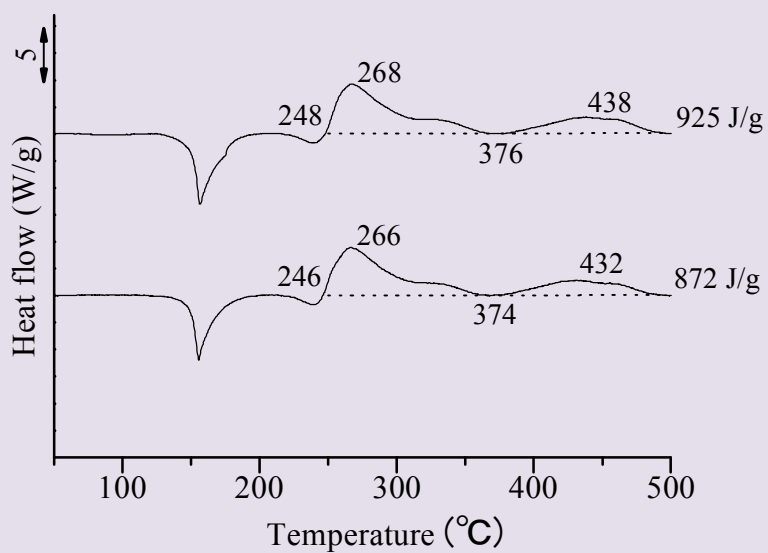
c) 10 K/min



< Average >

$T_a$  : 231 °C  
 $T_o$  : 231 °C  
 $T_{top}$  : 259 °C  
 $Q_{DSC}$  : 881 J/g

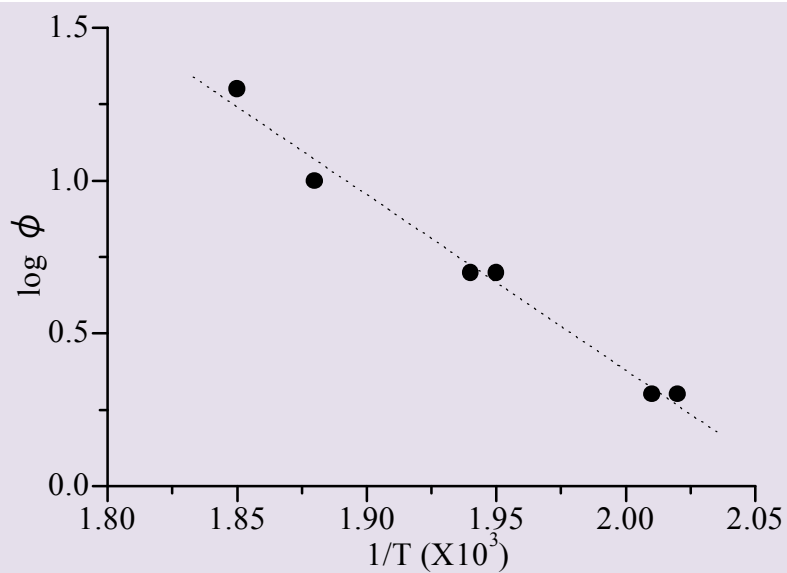
d) 20 K/min



< Average >

$T_a$  : 247 °C  
 $T_o$  : 247 °C  
 $T_{top}$  : 267 °C  
 $Q_{DSC}$  : 899 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	223	496	2.02	0.301
	224	497	2.01	0.301
5	239	512	1.95	0.699
	242	515	1.94	0.699
10	258	531	1.88	1.00
	260	533	1.88	1.00
20	268	541	1.85	1.30
	266	539	1.85	1.30