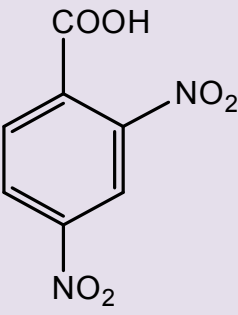
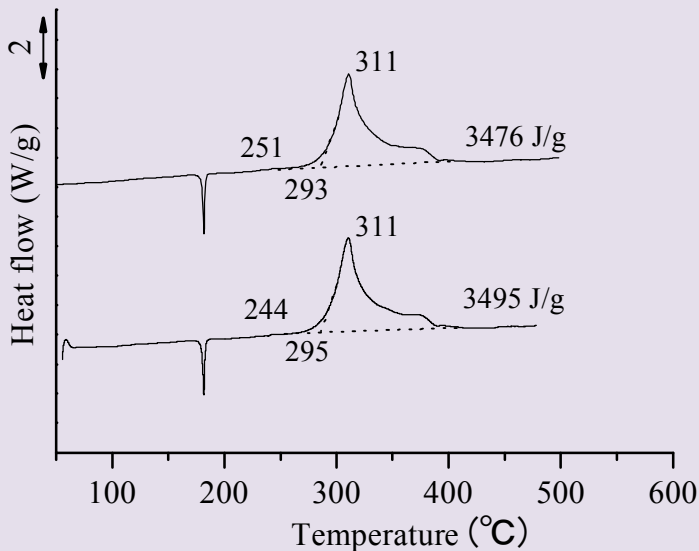
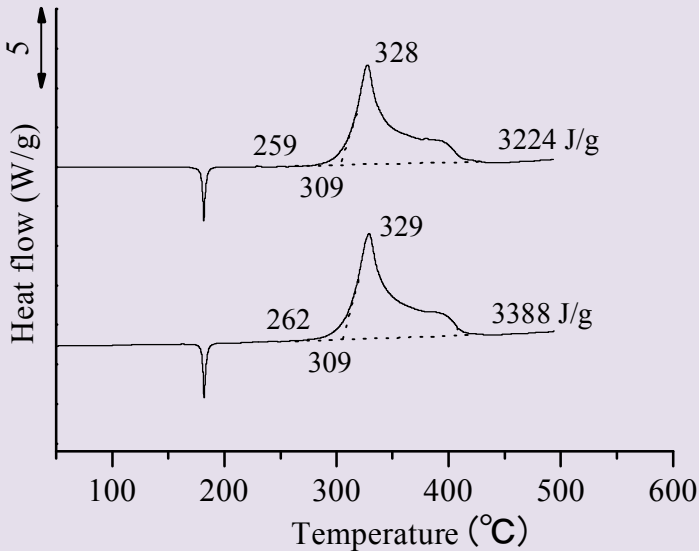
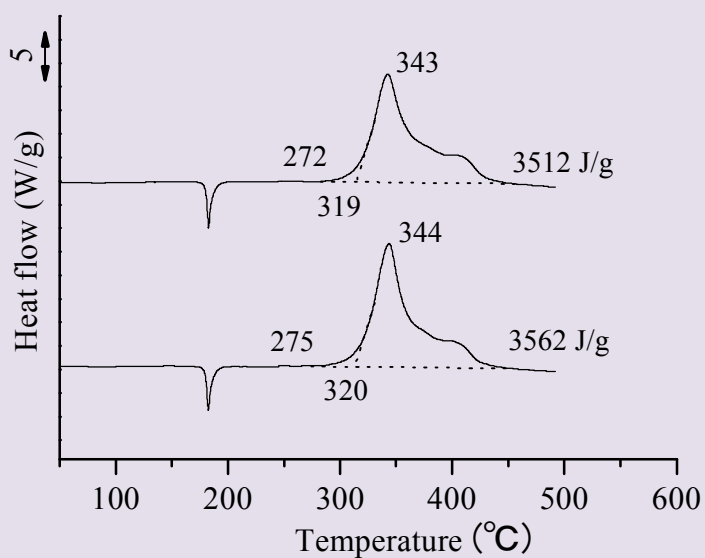


2,4-dinitrobenzoic acid	$(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{COOH}$ 24DNBA
	DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: Wako (> 98.0%)
a) 2 K/min Wako: 和光純薬工業株式会社	
	<Average> T_a : 248 °C T_o : 349 °C T_{top} : 311 °C Q_{DSC} : 3486 J/g
b) 5 K/min	
	<Average> T_a : 261 °C T_o : 309 °C T_{top} : 329 °C Q_{DSC} : 3306 J/g

c) 10 K/min



< Average >

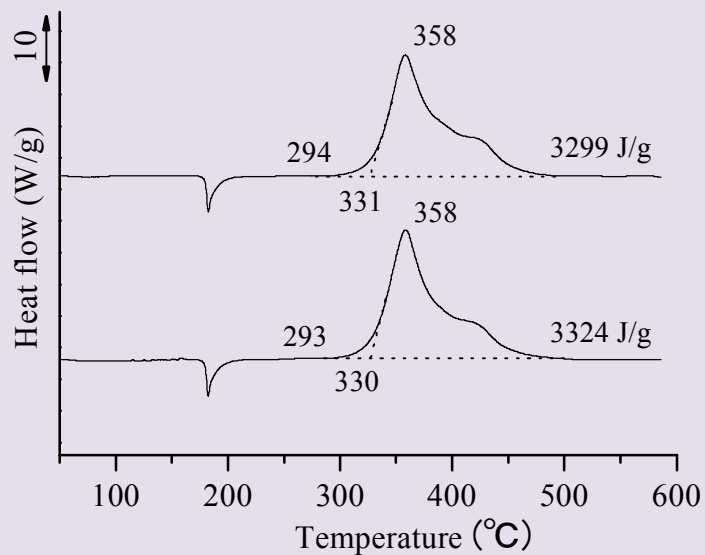
T_a : 274 °C

T_o : 320 °C

T_{top} : 344 °C

Q_{DSC} : 3537 J/g

d) 20 K/min



< Average >

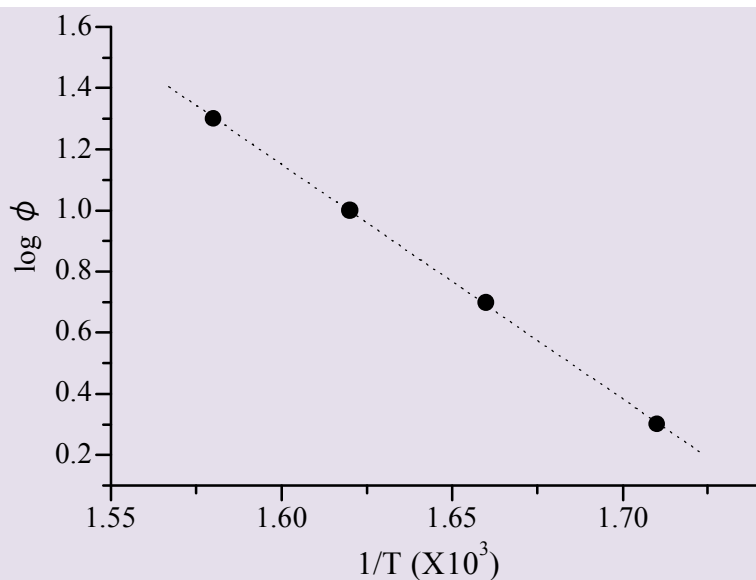
T_a : 294 °C

T_o : 331 °C

T_{top} : 358 °C

Q_{DSC} : 3312 J/g

ASTM PLOT



$\Delta E : 143 \text{ kJ/mol}$
 $A : 6.70 \times 10^{25}$
 $r = -0.99988$

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	311	584	1.71	0.301
	311	584	1.71	0.301
5	328	601	1.66	0.699
	329	602	1.66	0.699
10	343	616	1.62	1.00
	344	617	1.62	1.00
20	358	631	1.58	1.30
	358	631	1.58	1.30