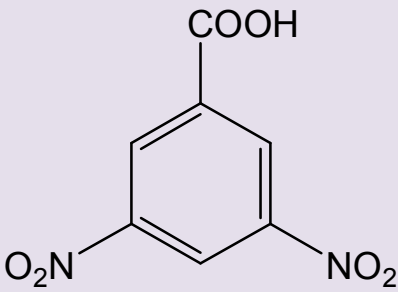
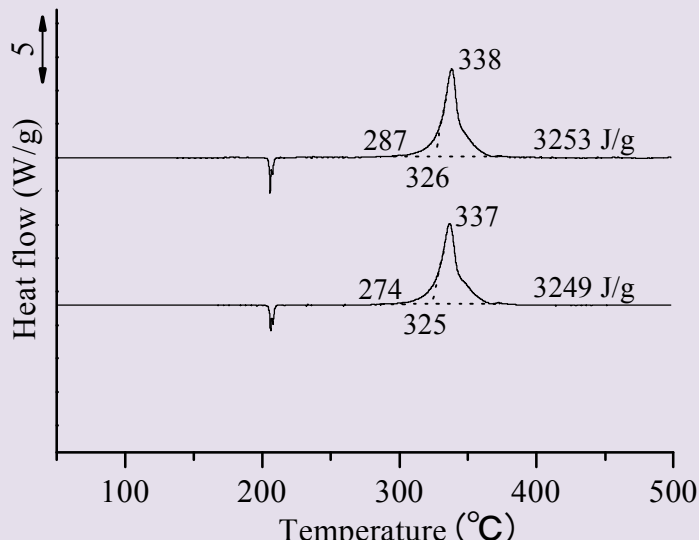
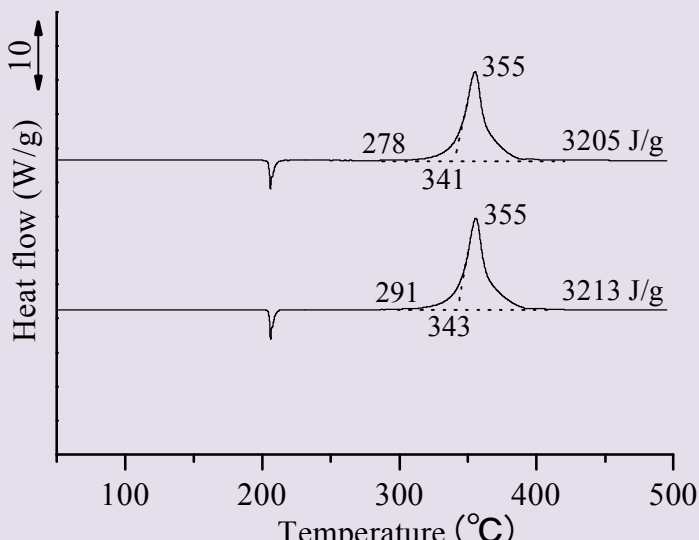
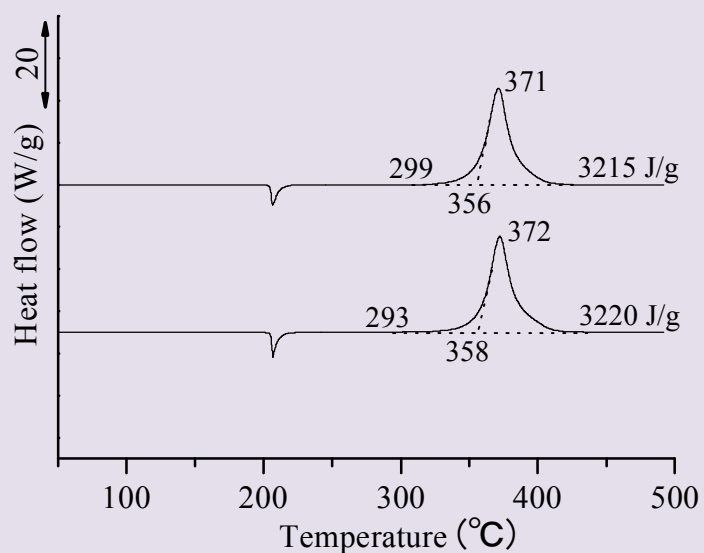


3,5-dinitrobenzoic acid	$(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{COOH}$ 35DNBA
	DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: Wako (> 98.0%)
a) 2 K/min <span style="float: right;">Wako: 和光純薬工業株式会社</span>	
	<Average> $T_a$ : 281 °C $T_o$ : 326 °C $T_{top}$ : 328 °C $Q_{DSC}$ : 3251 J/g
b) 5 K/min	
	<Average> $T_a$ : 285 °C $T_o$ : 342 °C $T_{top}$ : 355 °C $Q_{DSC}$ : 3209 J/g

c) 10 K/min



< Average >

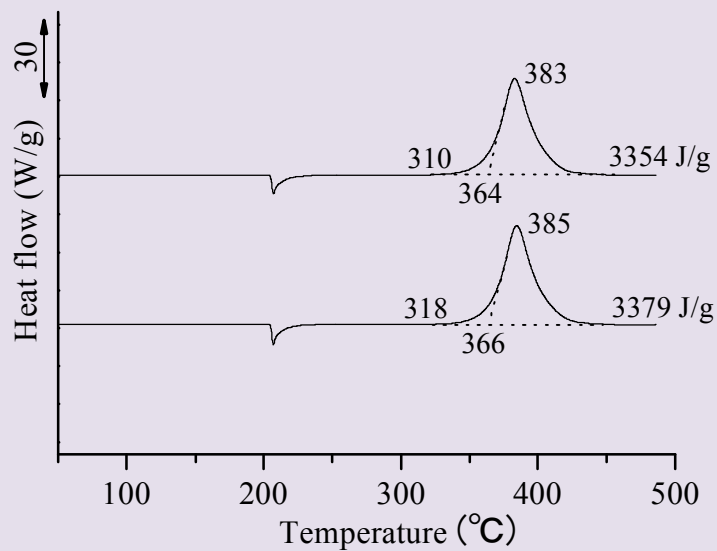
$T_a$  : 296 °C

$T_o$  : 357 °C

$T_{top}$  : 372 °C

$Q_{DSC}$  : 3218 J/g

d) 20 K/min



< Average >

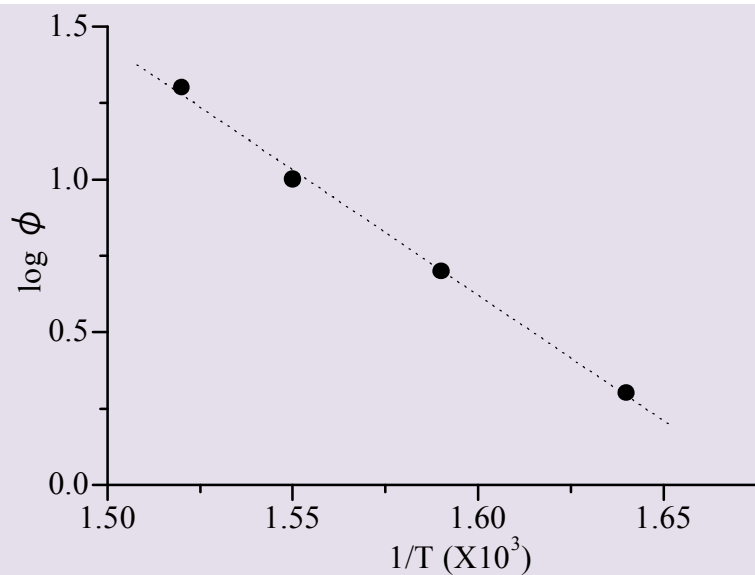
$T_a$  : 314 °C

$T_o$  : 365 °C

$T_{top}$  : 384 °C

$Q_{DSC}$  : 3367 J/g

## ASTM PLOT



$\Delta E : 153 \text{ kJ/mol}$   
 $A : 1.43 \times 10^{27}$   
 $r : -0.99857$

Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ (°C)	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	338	611	1.64	0.301
	337	610	1.64	0.301
5	355	628	1.59	0.699
	355	628	1.59	0.699
10	371	644	1.55	1.00
	372	645	1.55	1.00
20	383	656	1.52	1.30
	385	658	1.52	1.30