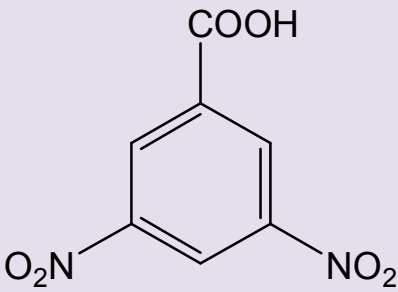
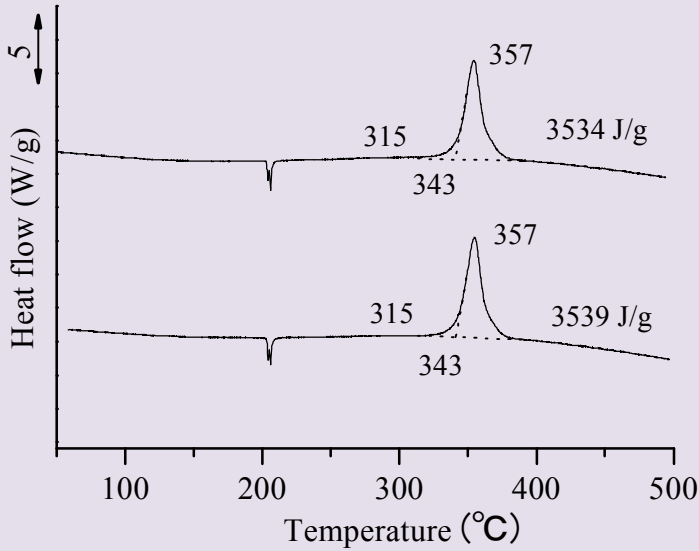
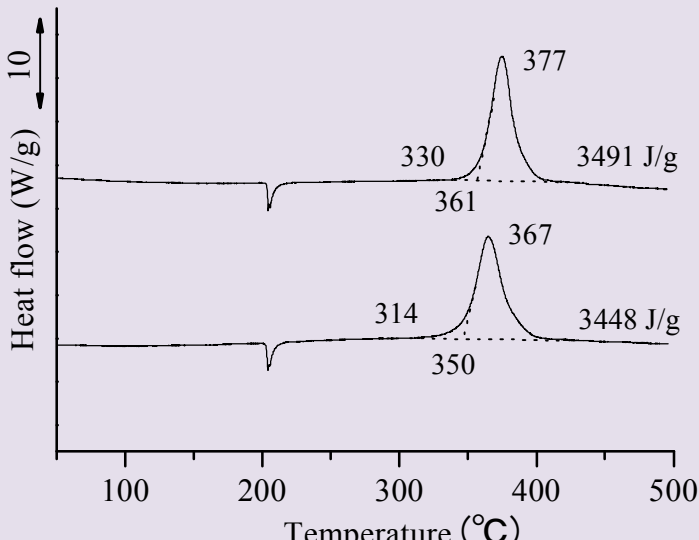
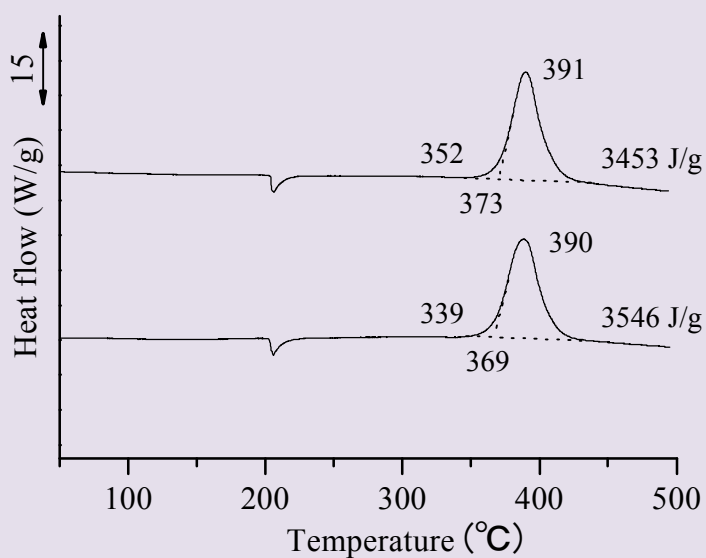


3,5-dinitrobenzoic acid	$(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{COOH}$ 35DNBA
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: Wako (> 98.0%)
a) 2 K/min Wako: 和光純薬工業株式会社	
 <div style="float: right; margin-top: 20px;"> <Average> T_a: 315 °C T_o: 343 °C T_{top}: 357 °C Q_{DSC}: 3537 J/g </div>	
b) 5 K/min	
 <div style="float: right; margin-top: 20px;"> <Average> T_a: 322 °C T_o: 356 °C T_{top}: 372 °C Q_{DSC}: 3470 J/g </div>	

c) 10 K/min



< Average >

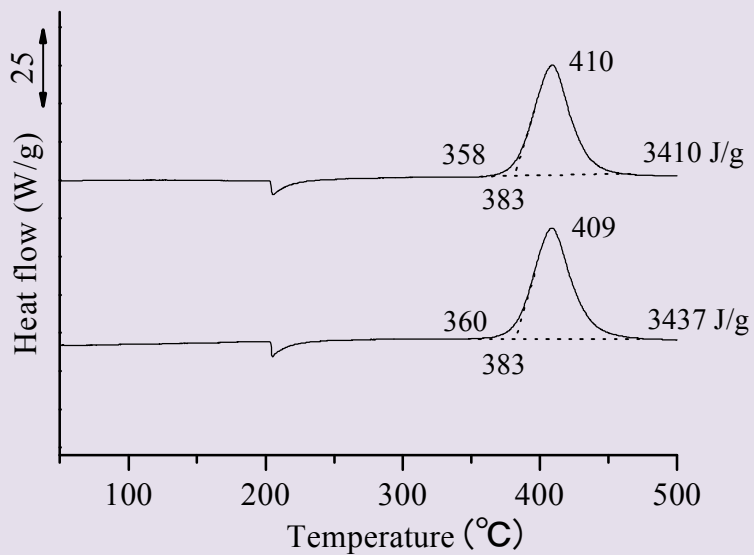
T_a : 346 °C

T_o : 371 °C

T_{top} : 391 °C

Q_{DSC} : 3500 J/g

d) 20 K/min



< Average >

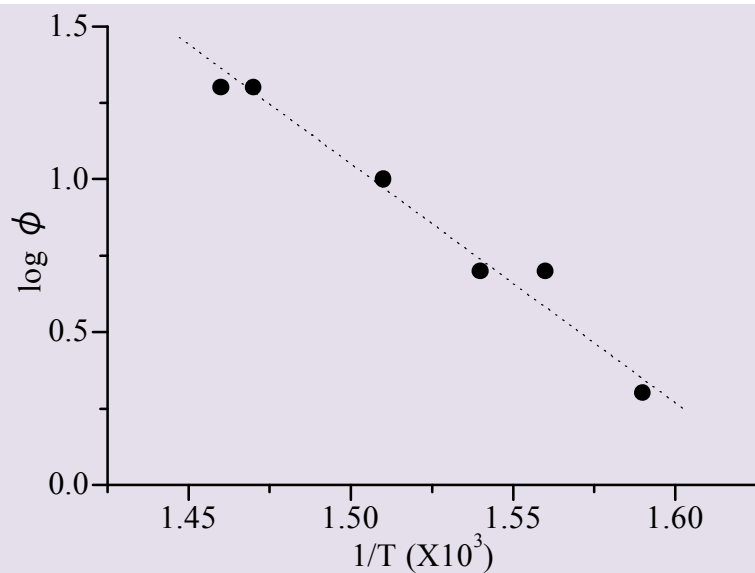
T_a : 359 °C

T_o : 383 °C

T_{top} : 410 °C

Q_{DSC} : 3424 J/g

ASTM PLOT



ΔE : 146 kJ/mol
 A : 7.28×10^{25}
 r : -0.98837

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	357	630	1.59	0.301
	357	630	1.59	0.301
5	377	650	1.54	0.699
	367	640	1.56	0.699
10	391	664	1.51	1.00
	390	663	1.51	1.00
20	410	683	1.46	1.30
	409	682	1.47	1.30