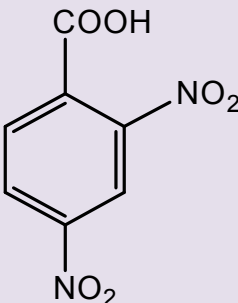
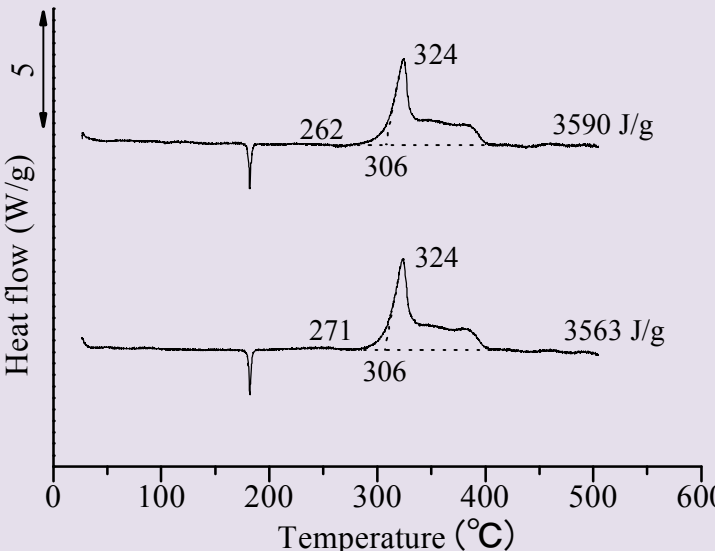
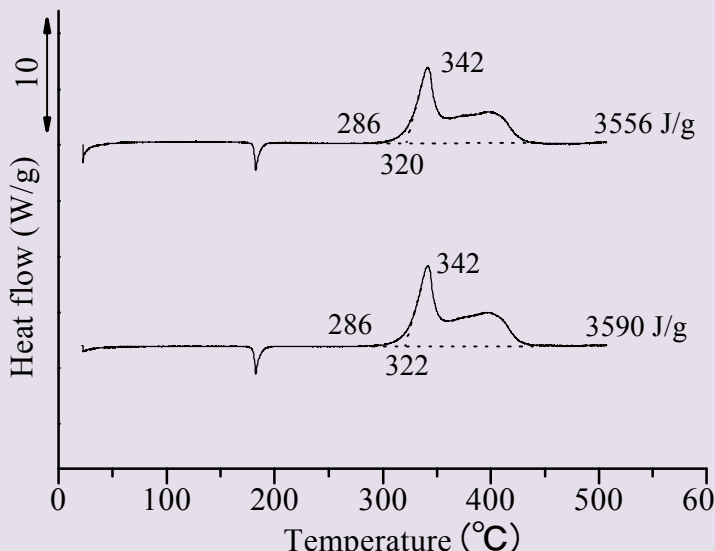
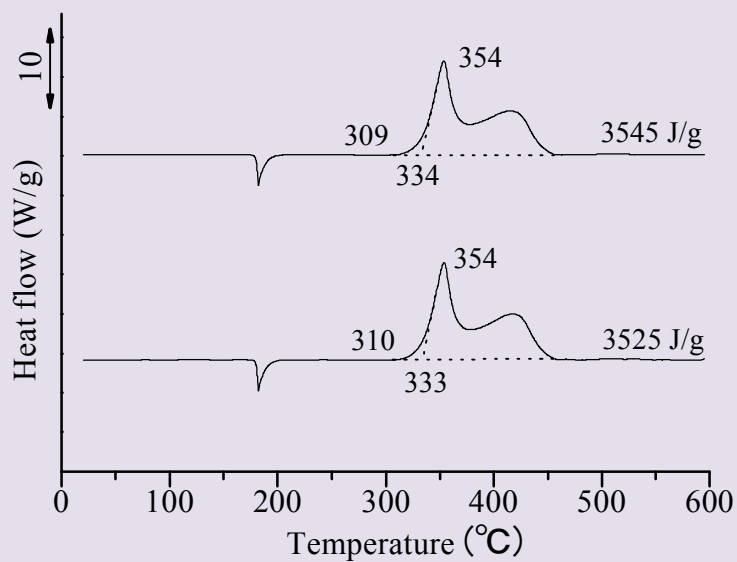


2,4-dinitrobenzoic acid	$(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{COOH}$ 24DNBA
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: Wako (> 98.0%)
a) 2 K/min Wako: 和光純薬工業株式会社	
 <div style="float: right; margin-top: 20px;"> <Average> T_a: 267 °C T_o: 306 °C T_{top}: 324 °C Q_{DSC}: 3577 J/g </div>	
b) 5 K/min	
 <div style="float: right; margin-top: 20px;"> <Average> T_a: 286 °C T_o: 321 °C T_{top}: 342 °C Q_{DSC}: 3573 J/g </div>	

c) 10 K/min



<Average>

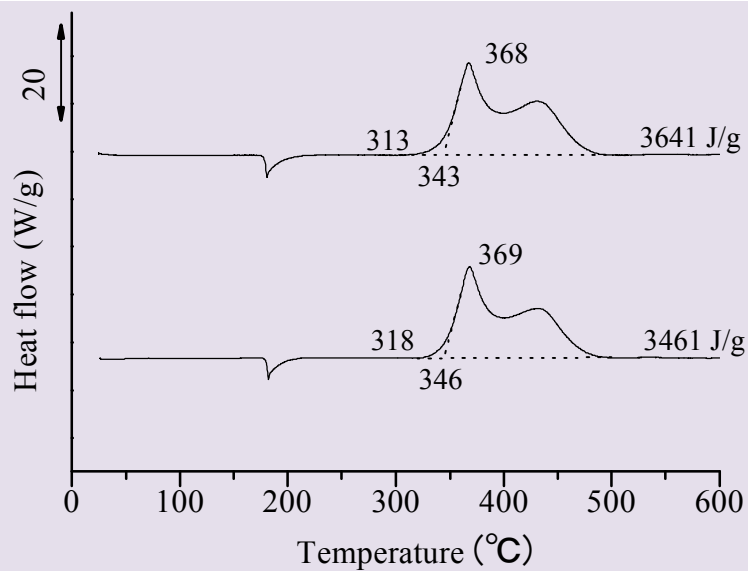
T_a : 310 °C

T_o : 334 °C

T_{top} : 354 °C

Q_{DSC} : 3535 J/g

d) 20 K/min



<Average>

T_a : 316 °C

T_o : 345 °C

T_{top} : 369 °C

Q_{DSC} : 3551 J/g

ASTM PLOT

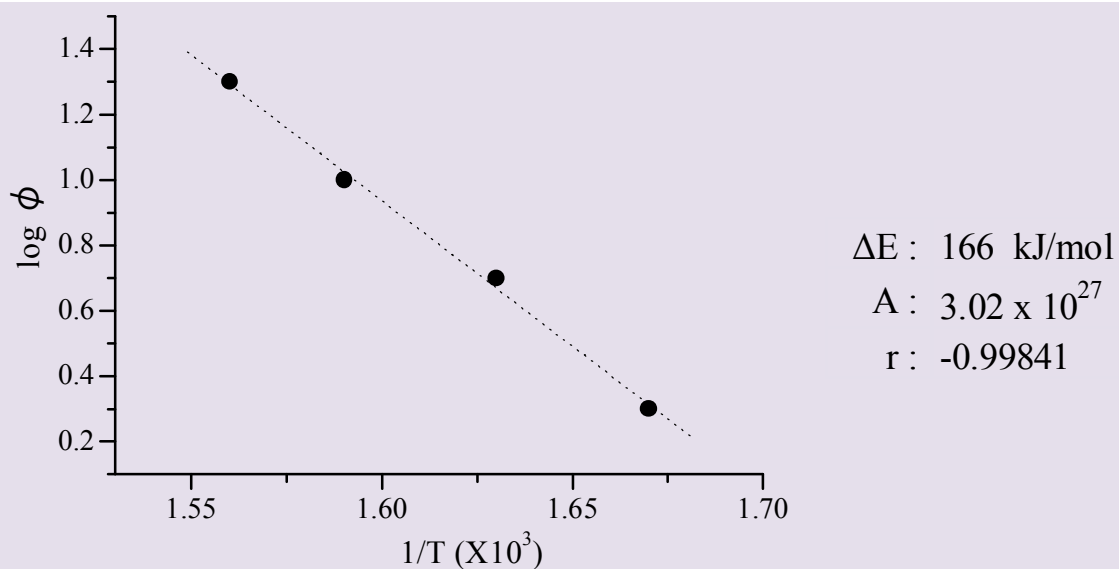


Table (ASTM)

Heat rate ϕ (K/min)	T_{peak} (°C)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	324	597	1.67	0.301
	324	597	1.67	0.301
5	342	615	1.63	0.699
	342	615	1.63	0.699
10	354	627	1.59	1.00
	354	627	1.59	1.00
20	368	641	1.56	1.30
	369	642	1.56	1.30