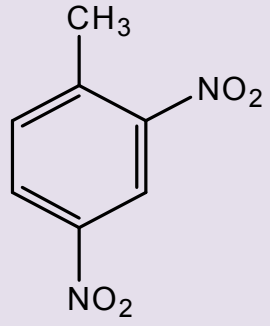
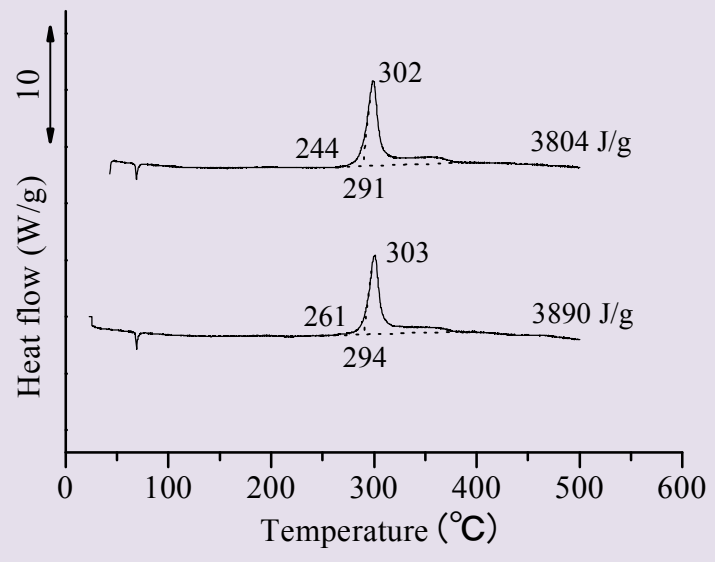
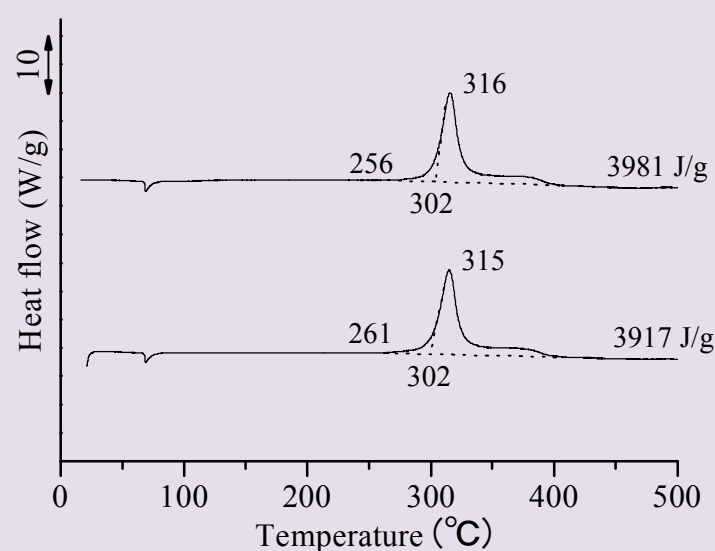
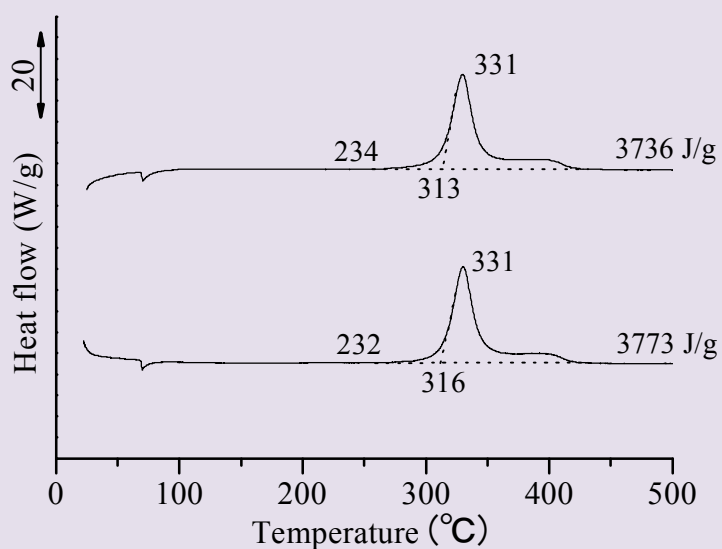


2,4-dinitrotoluene	$(\text{NO}_2)_2\text{C}_6\text{H}_3\text{CH}_3$ DNT
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: TGI (> 99%)
a) 2 K/min <span style="float: right;">TGI: 東京化成工業株式会社</span>	
	< Average > $T_a$ : 253 °C $T_o$ : 293 °C $T_{top}$ : 303 °C $Q_{DSC}$ : 3847 J/g
b) 5 K/min	
	< Average > $T_a$ : 259 °C $T_o$ : 302 °C $T_{top}$ : 316 °C $Q_{DSC}$ : 3949 J/g

c) 10 K/min



<Average>

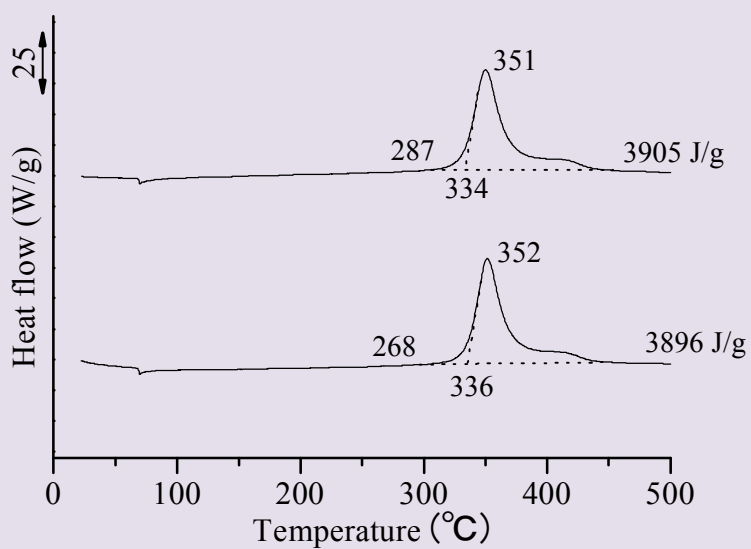
$T_a$  : 233 °C

$T_o$  : 315 °C

$T_{top}$  : 331 °C

$Q_{DSC}$  : 3754 J/g

d) 20 K/min



<Average>

$T_a$  : 278 °C

$T_o$  : 335 °C

$T_{top}$  : 352 °C

$Q_{DSC}$  : 3901 J/g

## ASTM PLOT

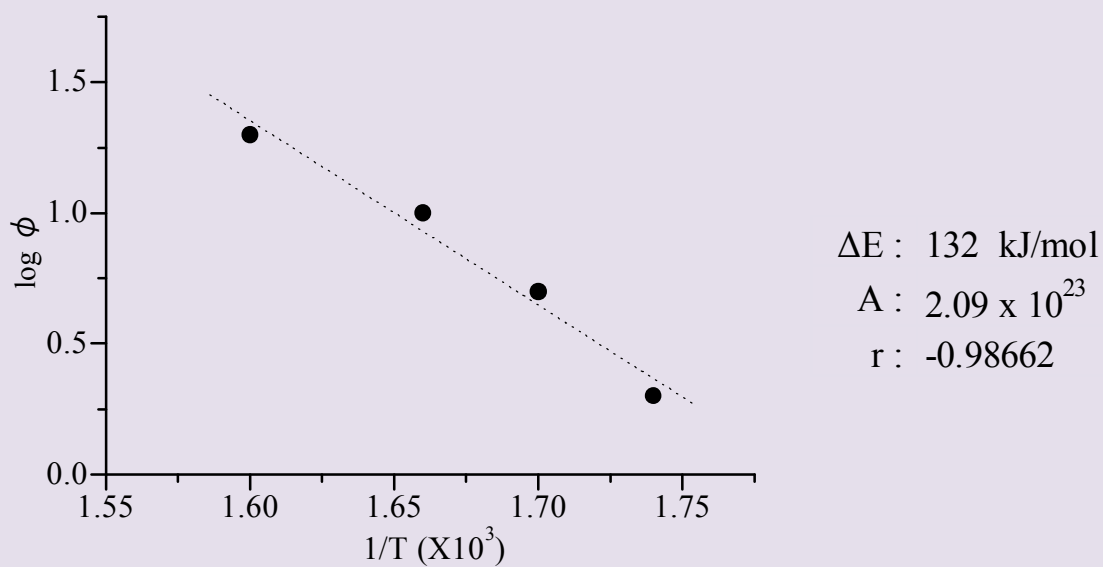


Table (ASTM)

Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ (°C)	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	303	576	1.74	0.301
	302	575	1.74	0.301
5	316	589	1.70	0.699
	315	588	1.70	0.699
10	331	604	1.66	1.00
	331	604	1.66	1.00
20	351	624	1.60	1.30
	352	625	1.60	1.30