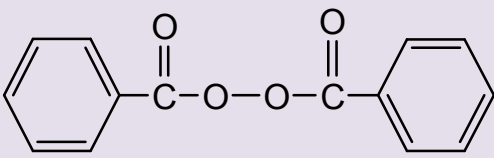
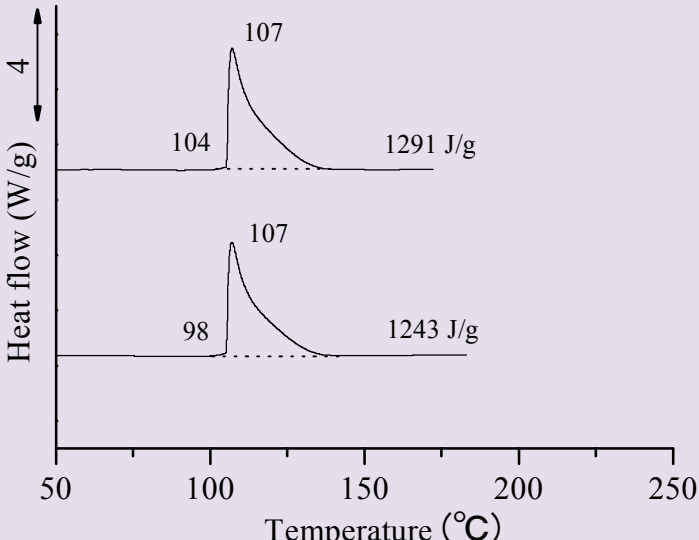
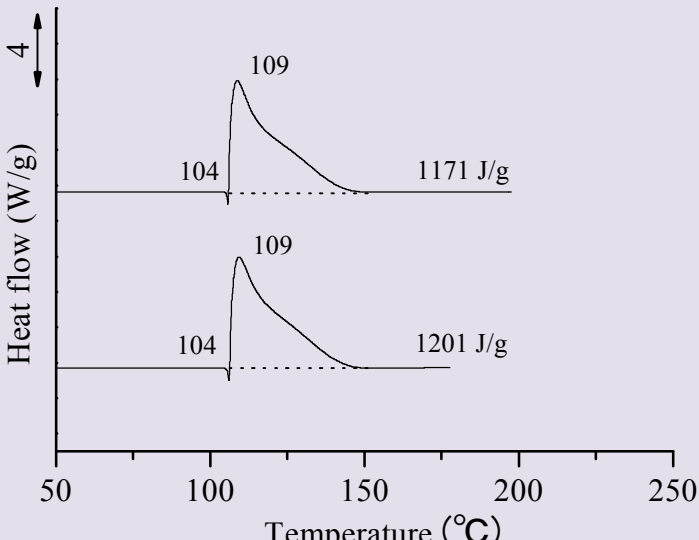
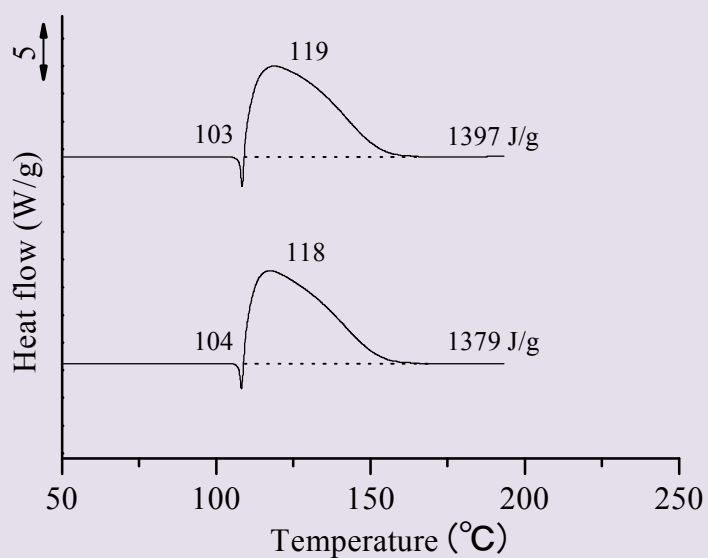


<p>Benzoylperoxide</p>	<p>$(C_6H_5CO)_2O_2$ BPO</p>
	<p>DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: AlfaAesar (> 97%)</p>
<p>a) 2 K/min AlfaAesar: AlfaAesar社 (販売 和光純薬工業株式会社)</p>	
	<p><Average> T_a: 101 °C T_o: 101 °C T_{top}: 107 °C Q_{DSC}: 1267 J/g</p>
<p>b) 5 K/min</p>	
	<p><Average> T_a: 104 °C T_o: 104 °C T_{top}: 109 °C Q_{DSC}: 1186 J/g</p>

c) 10 K/min



<Average>

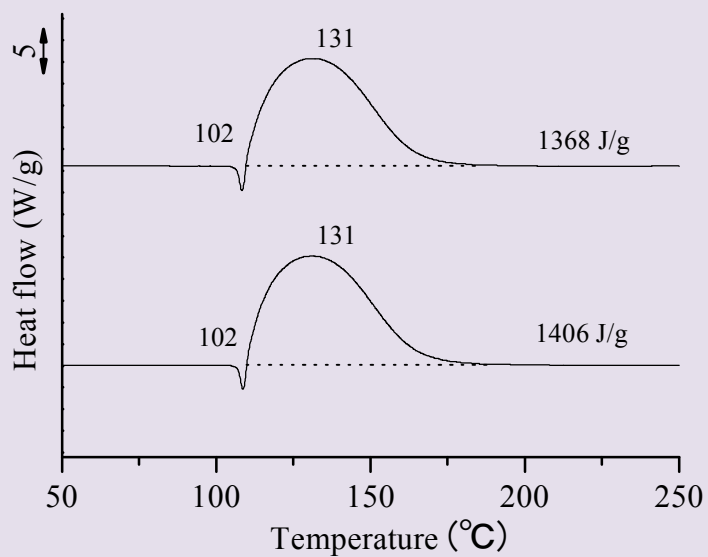
T_a : 104 °C

T_o : 104 °C

T_{top} : 119 °C

Q_{DSC} : 1388 J/g

d) 20 K/min



<Average>

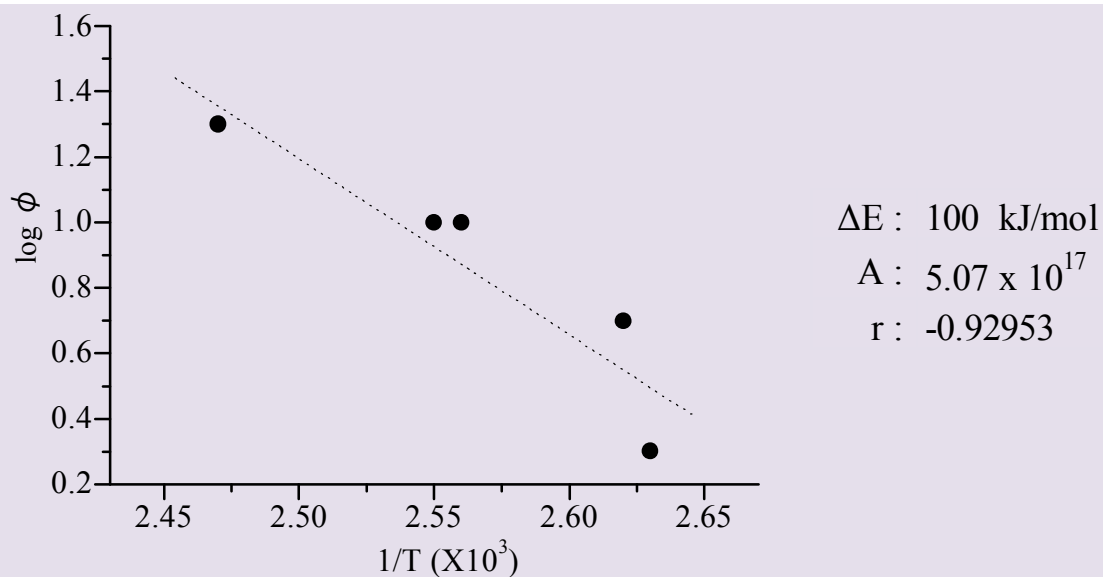
T_a : 102 °C

T_o : 102 °C

T_{top} : 131 °C

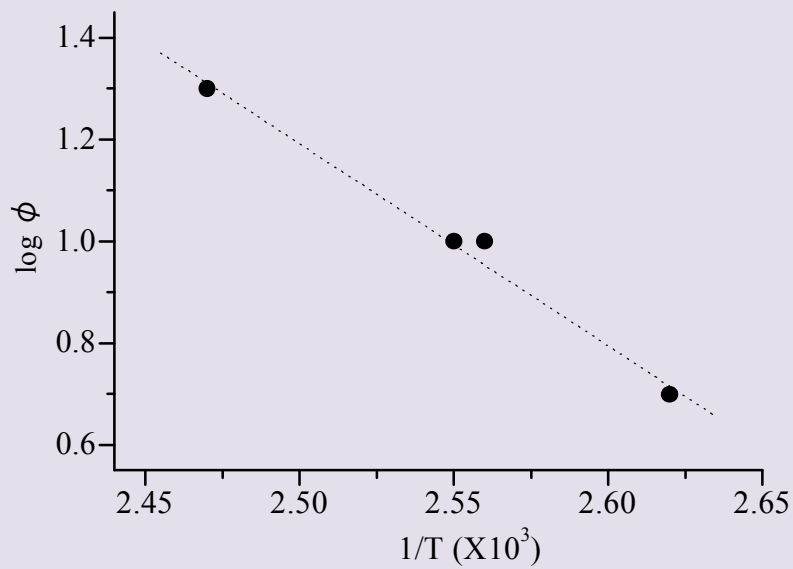
Q_{DSC} : 1387 J/g

ASTM PLOT



Heat rate ϕ (K/min)	T_{peak} (°C)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	107	380	2.63	0.301
	107	380	2.63	0.301
5	109	382	2.62	0.699
	109	382	2.62	0.699
10	119	392	2.55	1.00
	118	391	2.56	1.00
20	131	404	2.47	1.30
	131	404	2.47	1.30

ASTM PLOT (5, 10, 20 K/min)



$\Delta E : 74 \text{ kJ/mol}$
 $A : 8.95 \times 10^{12}$
 $r : -0.99588$