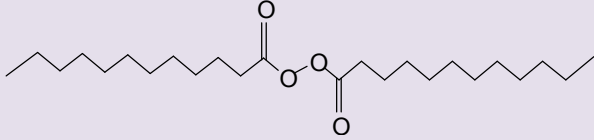
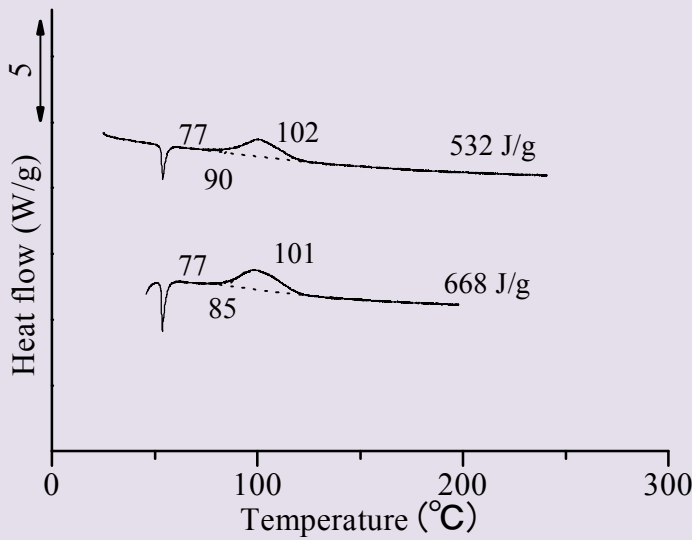
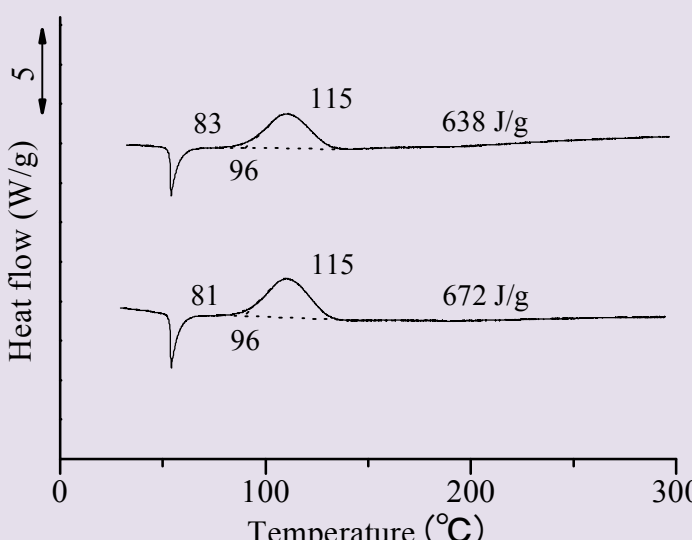
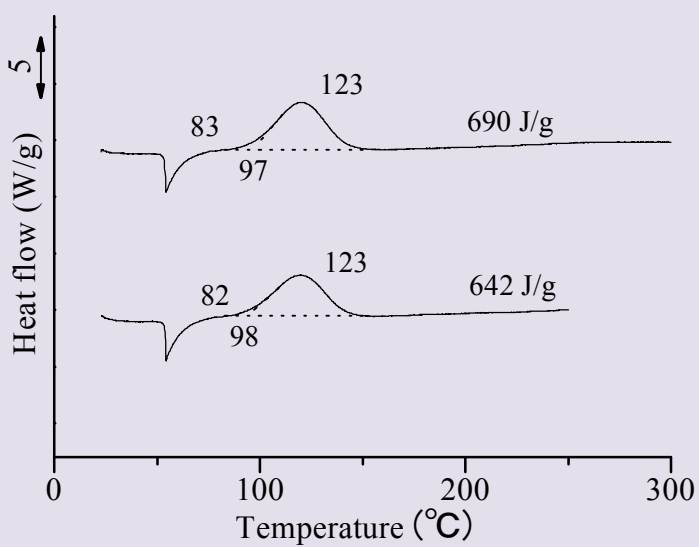


<p>Lauroyl peroxide</p>	<p>$C_{24}H_{46}O_4$ LPO</p>
	<p>DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: Alfa Aesar (> 97%)</p>
<p>a) 2 K/min AlfaAesar: AlfaAesar社 (販売 和光純薬工業株式会社)</p>	
	<p><Average> T_a: 77 °C T_o: 88 °C T_{top}: 102 °C Q_{DSC}: 600 J/g</p>
<p>b) 5 K/min</p>	
	<p><Average> T_a: 82 °C T_o: 96 °C T_{top}: 115 °C Q_{DSC}: 655 J/g</p>

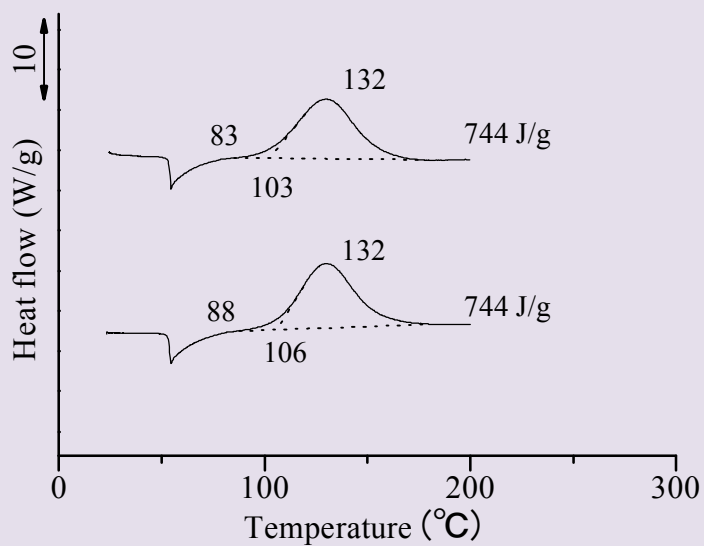
c) 10 K/min



< Average >

T_a :	83 °C
T_o :	98 °C
T_{top} :	123 °C
Q_{DSC} :	666 J/g

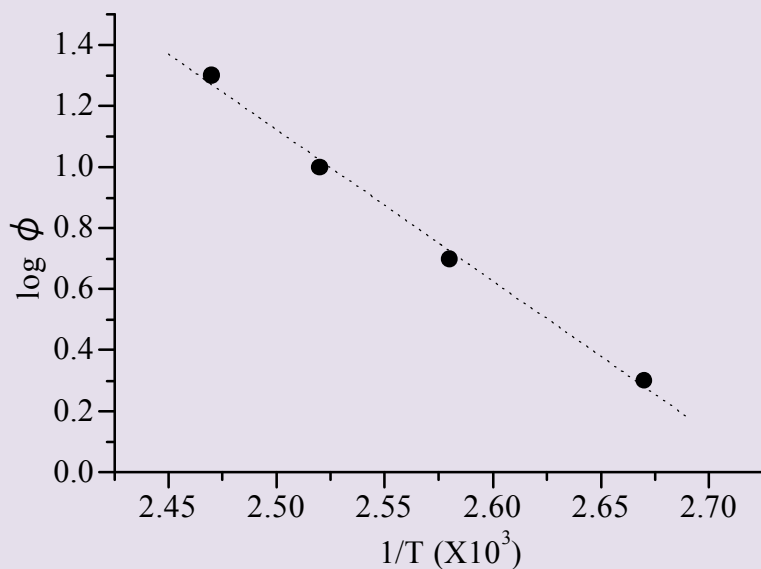
d) 20 K/min



< Average >

T_a :	86 °C
T_o :	105 °C
T_{top} :	132 °C
Q_{DSC} :	744 J/g

ASTM PLOT



ΔE : 92 kJ/mol
 A : 1.87×10^{16}
 r : -0.99767

Table (ASTM)

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	102	375	2.67	0.301
	101	374	2.67	0.301
5	115	388	2.58	0.699
	115	388	2.58	0.699
10	123	396	2.52	1.00
	123	396	2.52	1.00
20	132	405	2.47	1.30
	132	405	2.47	1.30