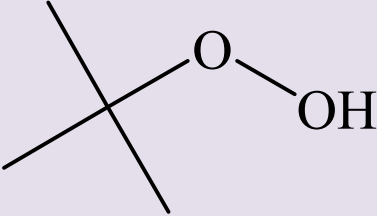
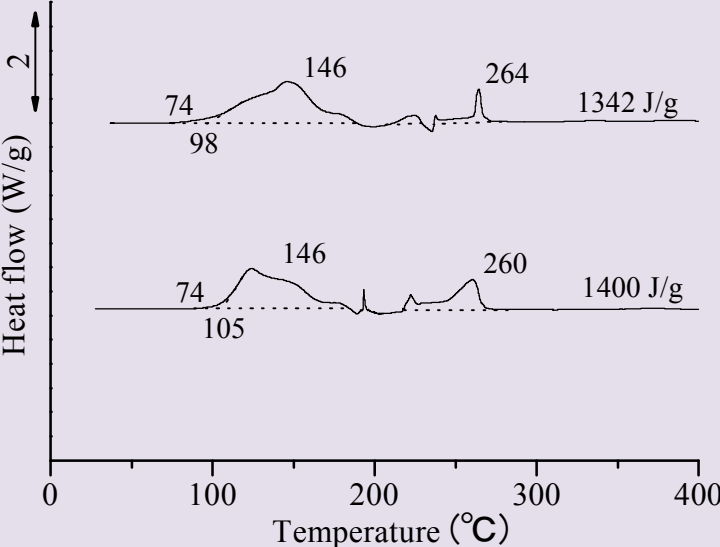
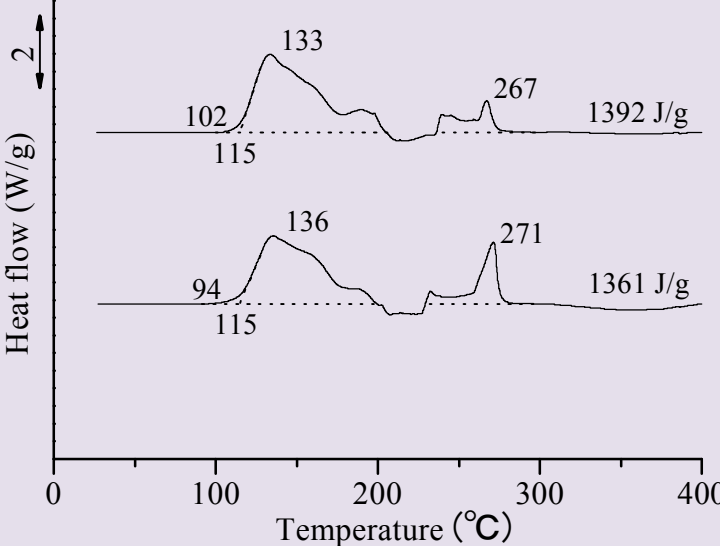
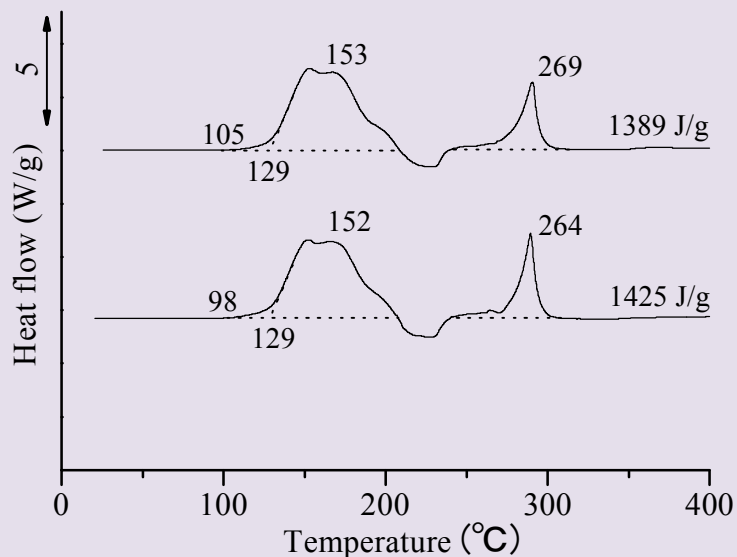


tert-Butyl hydroperoxide	C ₄ H ₁₀ O ₂ TBH
	DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: TGI (> 70%)
a) 2 K/min	
	<Average> T _a : 74 °C T _o : 102 °C T _{top} : 146 °C Q _{DSC} : 1371 J/g
b) 5 K/min	
	<Average> T _a : 98 °C T _o : 115 °C T _{top} : 135 °C Q _{DSC} : 1377 J/g

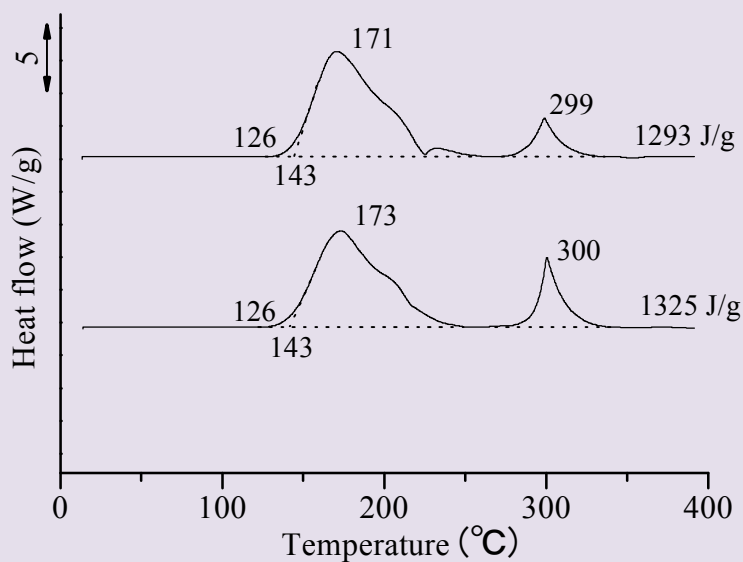
c) 10 K/min



< Average >

T_a : 102 °C
 T_o : 129 °C
 T_{top} : 153 °C
 Q_{DSC} : 1407 J/g

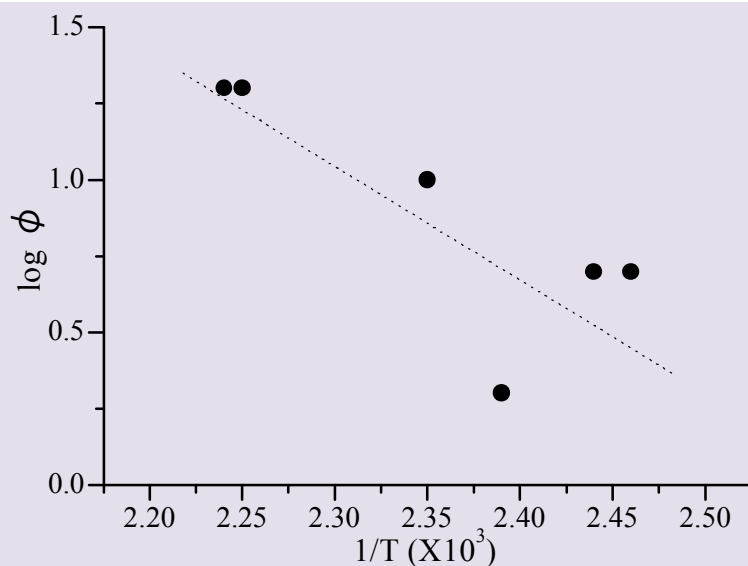
d) 20 K/min



< Average >

T_a : 126 °C
 T_o : 143 °C
 T_{top} : 172 °C
 Q_{DSC} : 1309 J/g

ASTM PLOT



ΔE : 69 kJ/mol
 A : 1.18×10^{12}
 r : -0.75323

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	146	419	2.39	0.301
	146	419	2.39	0.301
5	133	406	2.46	0.699
	136	409	2.44	0.699
10	153	426	2.35	1.00
	152	425	2.35	1.00
20	171	444	2.25	1.30
	173	446	2.24	1.30