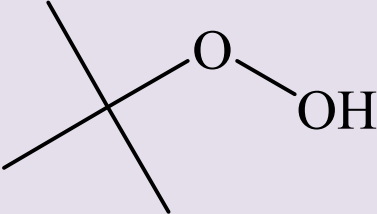
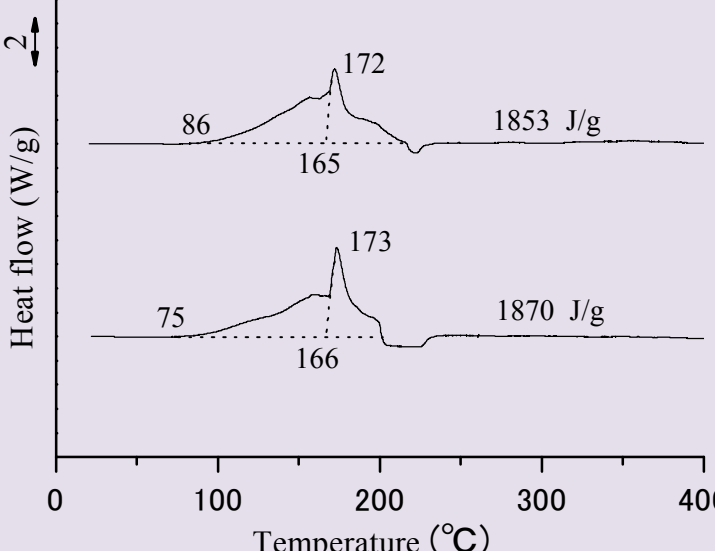
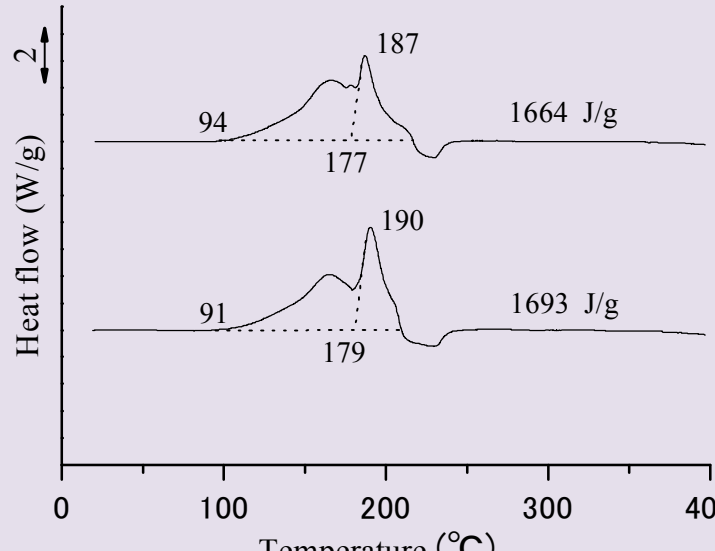
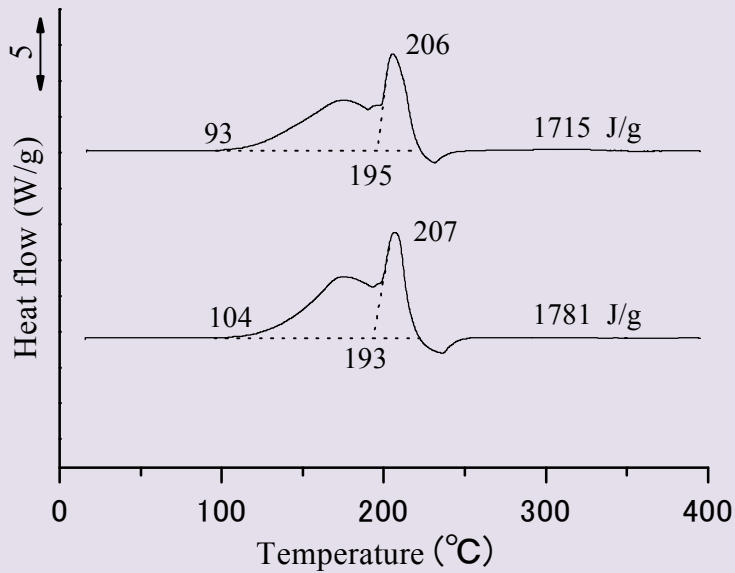


tert-Butyl hydroperoxide	$C_4H_{10}O_2$ TBH
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: TGI (> 70%)
a) 2 K/min TGI: 東京化成工業株式会社	
	<Average> T_a : 81 °C T_o : 166 °C T_{top} : 173 °C Q_{DSC} : 1862 J/g
b) 5 K/min	
	<Average> T_a : 93 °C T_o : 178 °C T_{top} : 189 °C Q_{DSC} : 1679 J/g

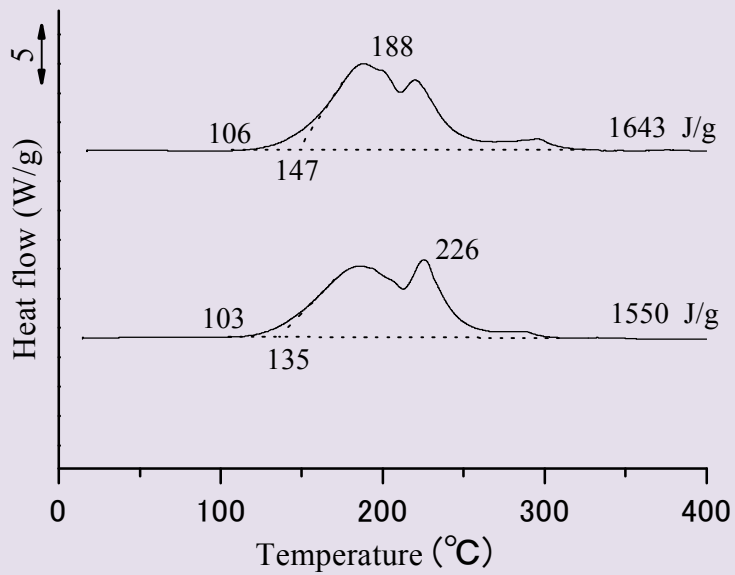
c) 10 K/min



<Average>

T_a : 99 °C
 T_o : 194 °C
 T_{top} : 207 °C
 Q_{DSC} : 1748 J/g

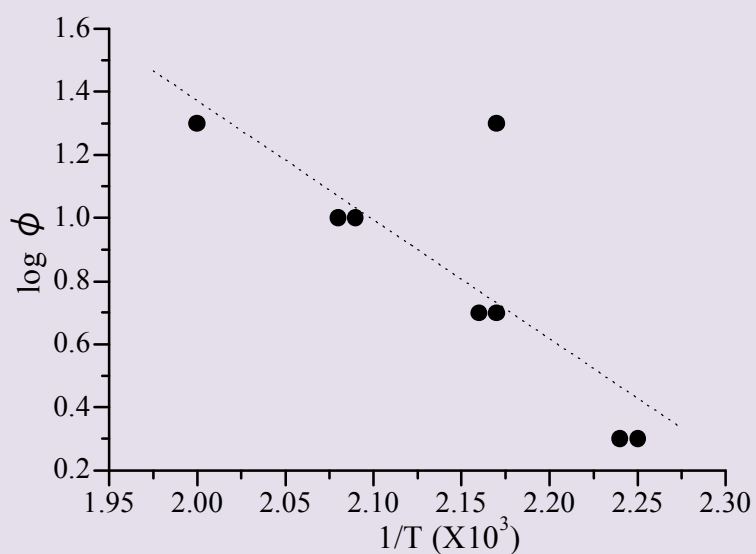
d) 20 K/min



<Average>

T_a : 105 °C
 T_o : 141 °C
 T_{top} : 207 °C
 Q_{DSC} : 1597 J/g

ASTM PLOT



Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	172	445	2.25	0.301
	173	446	2.24	0.301
5	187	460	2.17	0.699
	190	463	2.16	0.699
10	206	479	2.09	1.00
	207	480	2.08	1.00
20	188	461	2.17	1.30
	226	499	2.00	1.30