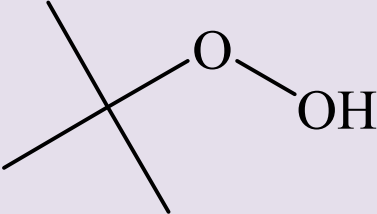
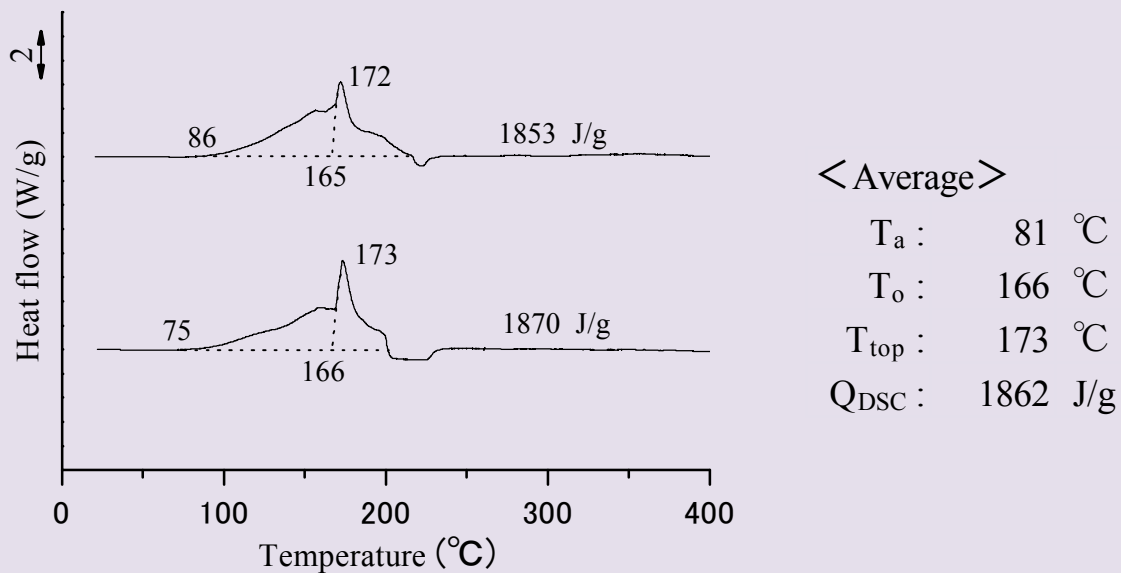
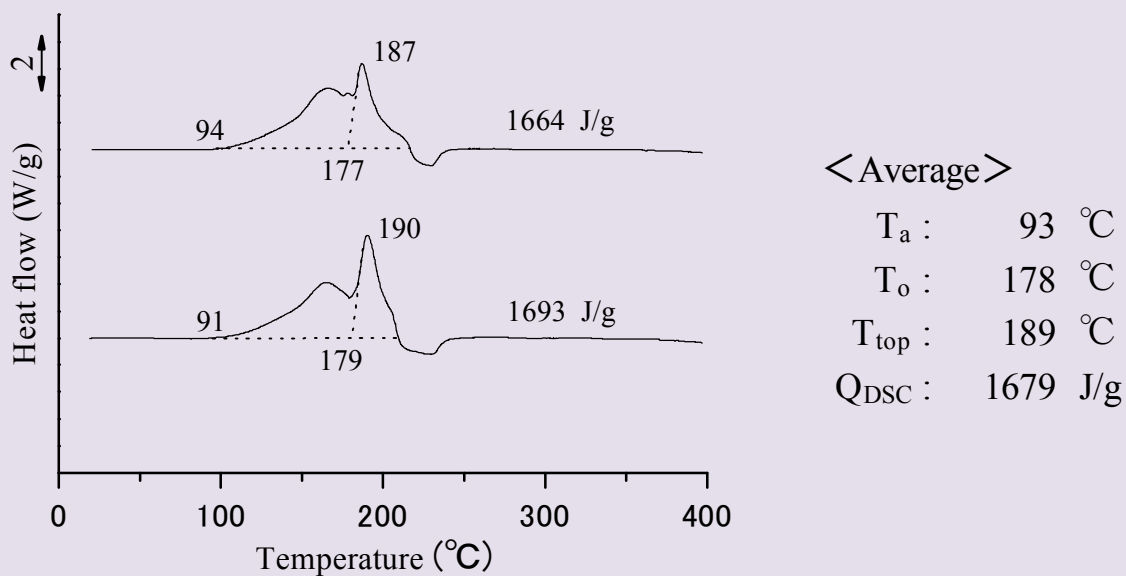


tert-Butyl hydroperoxide	C <sub>8</sub> H <sub>18</sub> O <sub>2</sub> TBP
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: TGI (> 70%)

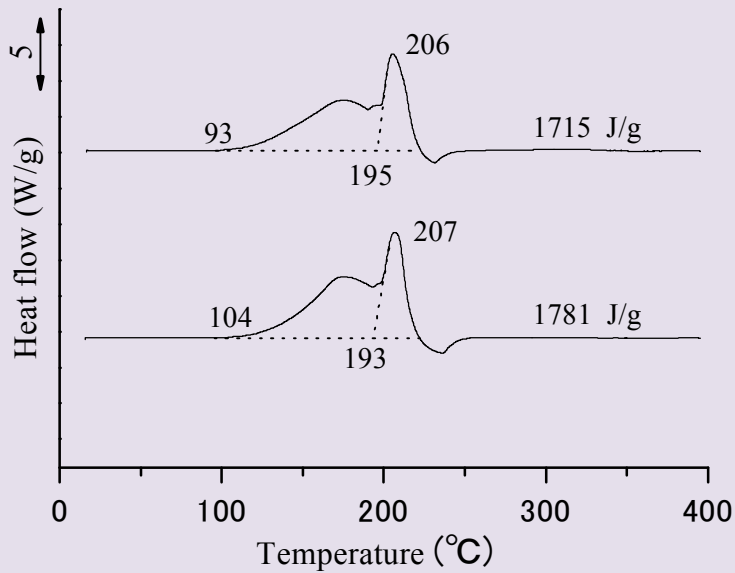
a) 2 K/min



b) 5 K/min



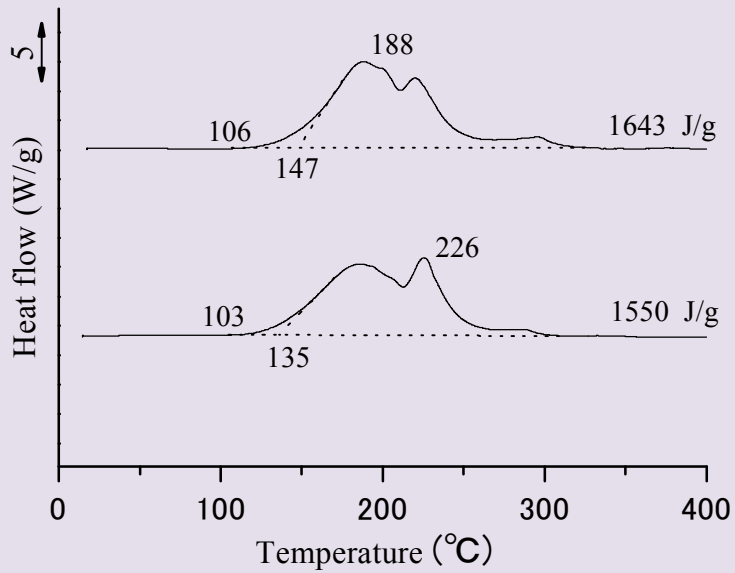
c) 10 K/min



<Average>

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

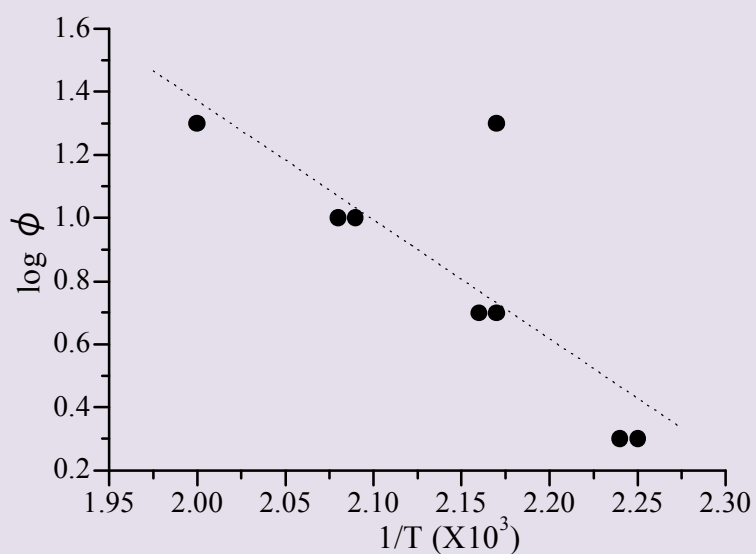
d) 20 K/min



<Average>

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

## ASTM PLOT



Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ ( $^{\circ}\text{C}$ )	$T_m$ (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