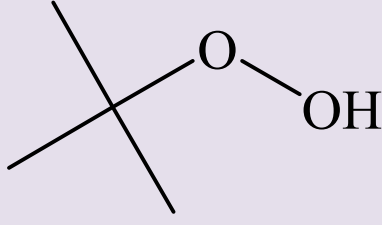


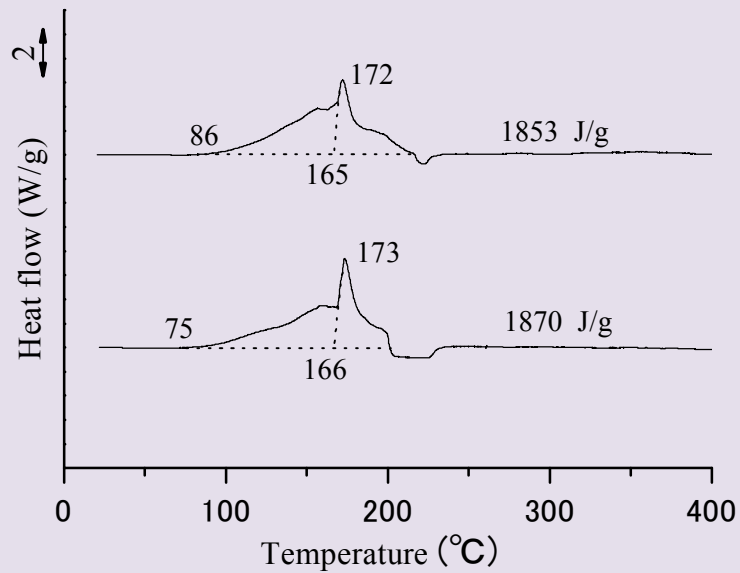
tert-Butyl hydroperoxide

$C_8H_{18}O_2$ TBP



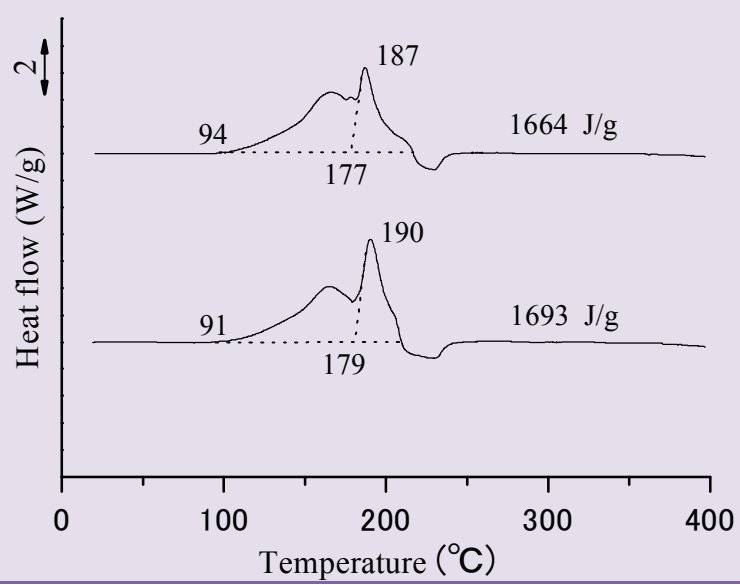
DSC device: DSC8270B
 Rigaku Corp.
 dT/dt: 2, 5, 10, 20 K/min
 Atmosphere: Air
 Vesel: pressure vessel (SUS)
 Rigaku Corp.
 Sample: TGI (> 70%)

a) 2 K/min



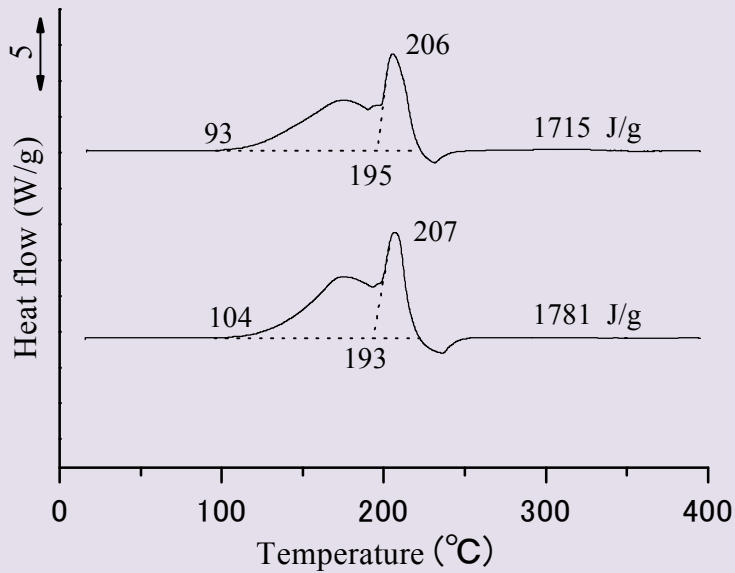
<Average>
 T_a : 81 °C
 T_o : 166 °C
 T_{top} : 173 °C
 Q_{DSC} : 1862 J/g

b) 5 K/min



<Average>
 T_a : 93 °C
 T_o : 178 °C
 T_{top} : 189 °C
 Q_{DSC} : 1679 J/g

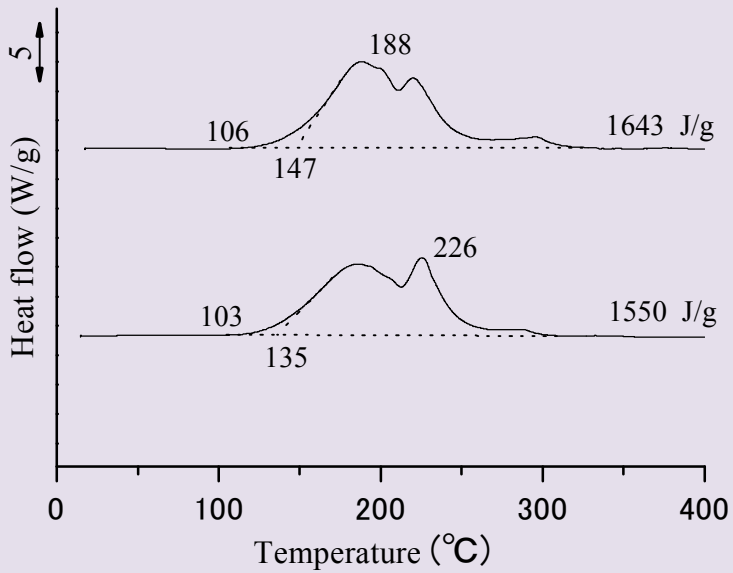
c) 10 K/min



<Average>

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

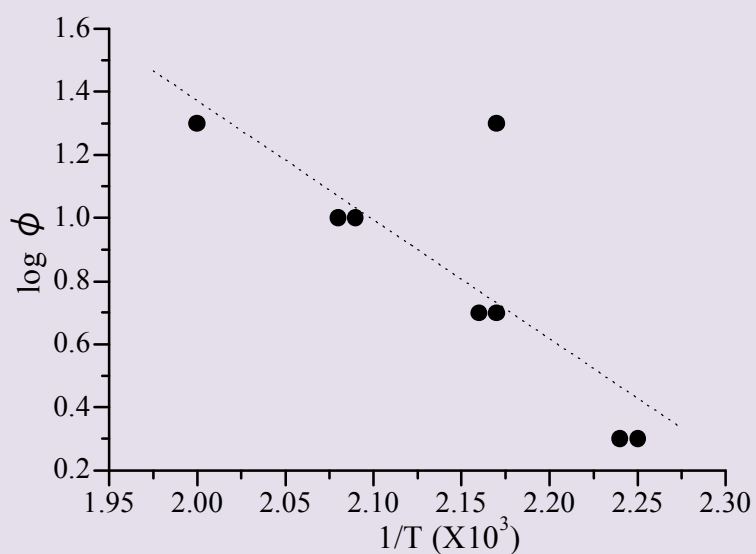
d) 20 K/min



<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