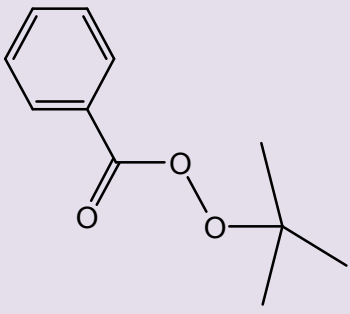
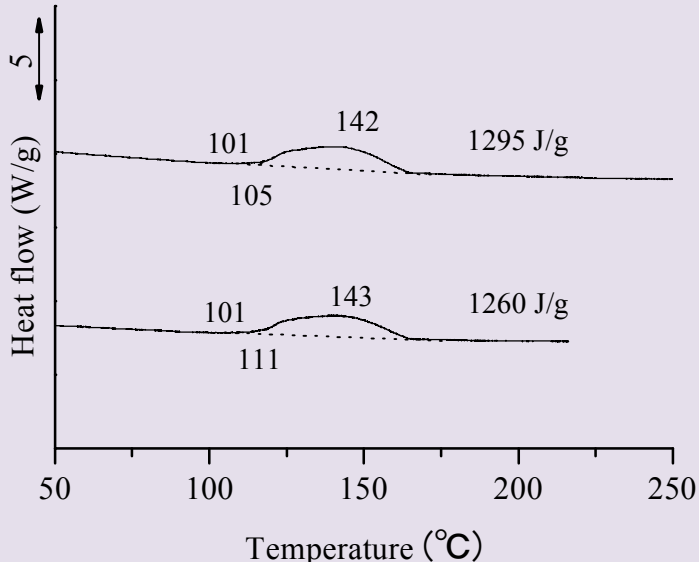
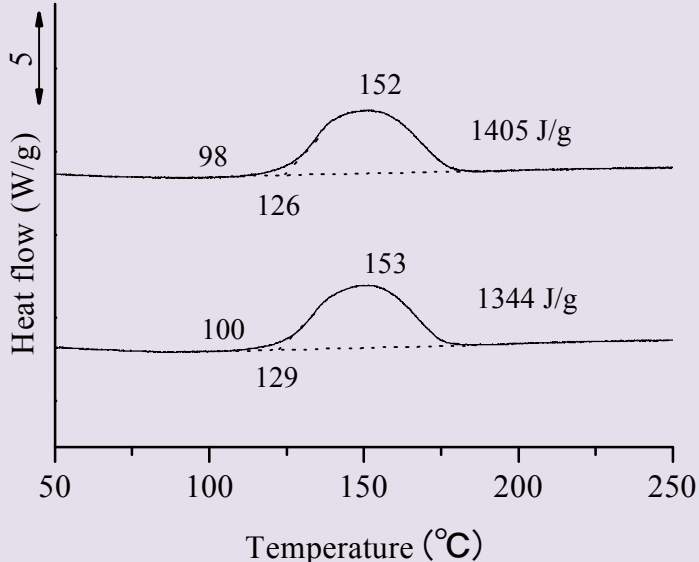
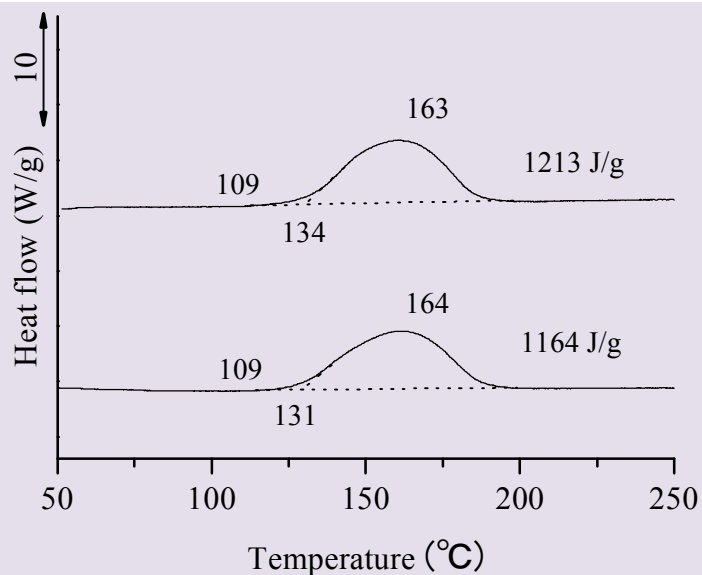


tert-Butyl perbenzoate	$C_{11}H_{14}O_3$ TBPBZ
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: AlfaAesar (> 98%)
a) 2 K/min <span style="float: right;">AlfaAesar: AlfaAesar社 (販売 和光純薬工業株式会社)</span>	
	<Average> $T_a$ : 101 °C $T_o$ : 108 °C $T_{top}$ : 143 °C $Q_{DSC}$ : 1278 J/g
b) 5 K/min	
	<Average> $T_a$ : 99 °C $T_o$ : 128 °C $T_{top}$ : 153 °C $Q_{DSC}$ : 1375 J/g

c) 10 K/min



<Average>

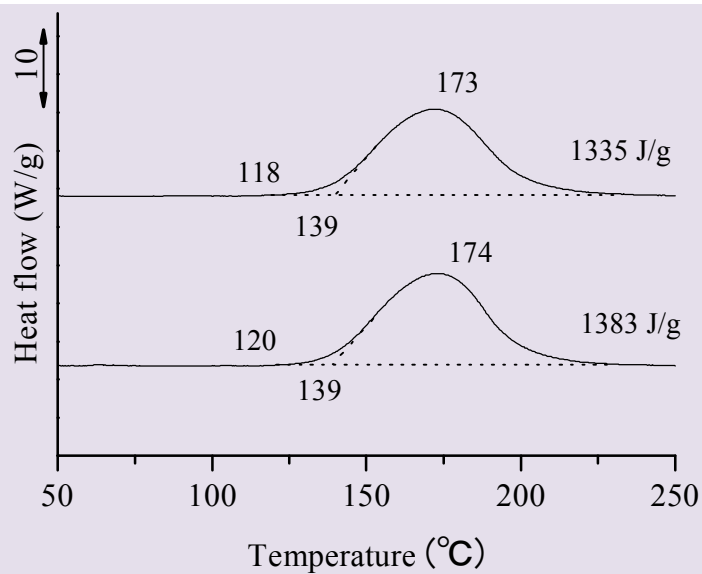
$T_a$  : 109 °C

$T_o$  : 133 °C

$T_{top}$  : 164 °C

$Q_{DSC}$  : 1189 J/g

d) 20 K/min



<Average>

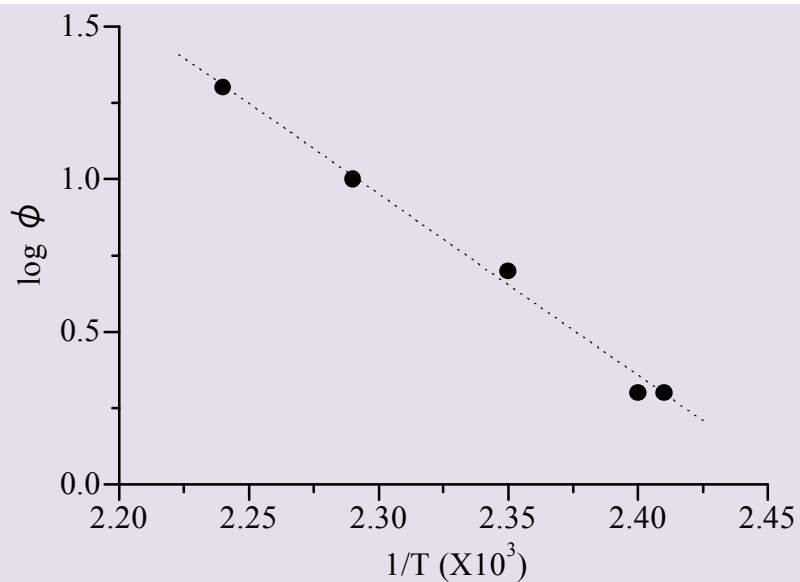
$T_a$  : 119 °C

$T_o$  : 139 °C

$T_{top}$  : 174 °C

$Q_{DSC}$  : 1359 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	142	415	2.41	0.301
	143	416	2.40	0.301
5	152	425	2.35	0.699
	153	426	2.35	0.699
10	163	436	2.29	1.00
	164	437	2.29	1.00
20	173	446	2.24	1.30
	174	447	2.24	1.30