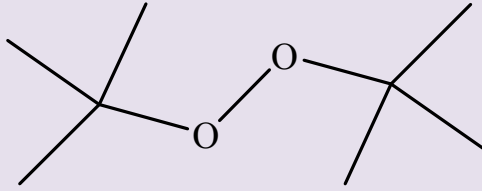


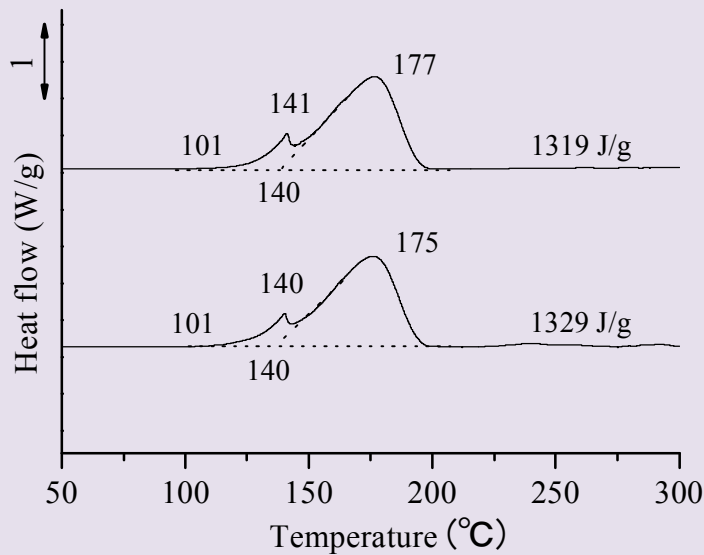
tert-Butyl peroxide

$C_8H_{18}O_2$ TBP



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.

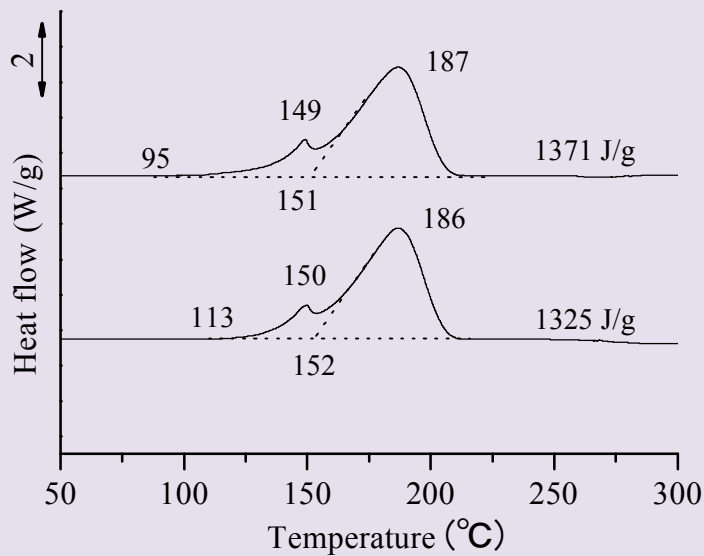
a) 2 K/min



<Average>

T_a : 101 °C
 T_o : 140 °C
 T_{top} : 176 °C
 Q_{DSC} : 1324 J/g

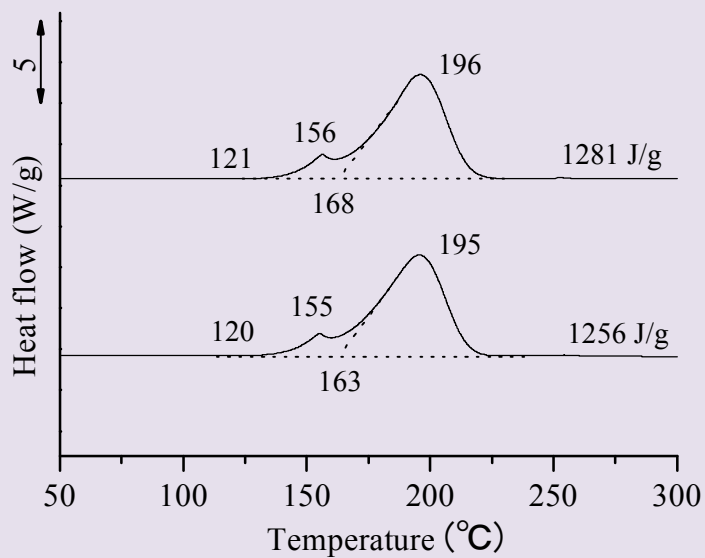
b) 5 K/min



<Average>

T_a : 104 °C
 T_o : 152 °C
 T_{top} : 187 °C
 Q_{DSC} : 1348 J/g

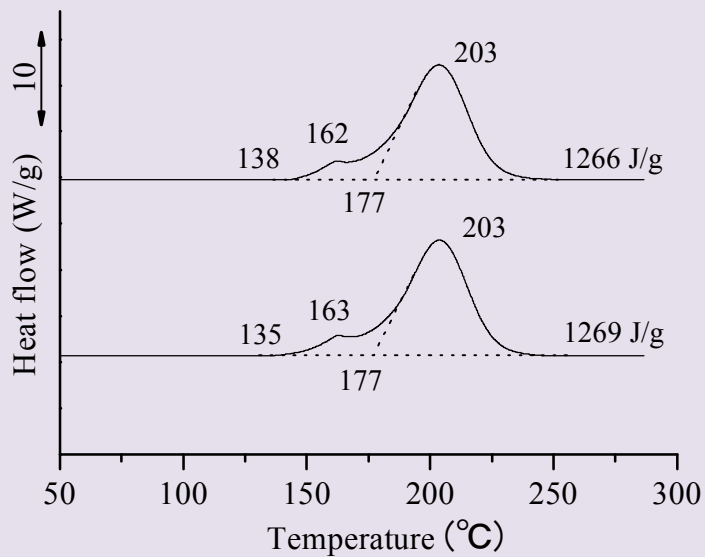
c) 10 K/min



<Average>

$T_a:$	121	°C
$T_o:$	166	°C
$T_{top}:$	196	°C
$Q_{DSC}:$	1269	J/g

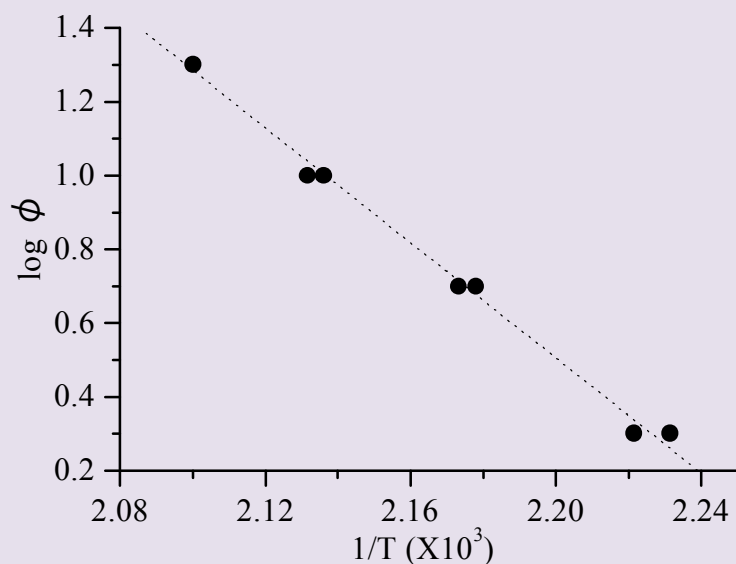
d) 20 K/min



<Average>

$T_a:$	137	°C
$T_o:$	177	°C
$T_{top}:$	203	°C
$Q_{DSC}:$	1268	J/g

ASTM PLOT



Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log(\phi/T_m^2)$
2	177	450.15	2.221481728	0.301029996
	175	448.15	2.231395738	0.301029996
5	187	460.15	2.17320439	0.698970004
	186	459.15	2.177937493	0.698970004
10	196	469.15	2.131514441	1
	195	468.15	2.1360675	1
20	203	476.15	2.100178515	1.301029996
	203	476.15	2.100178515	1.301029996