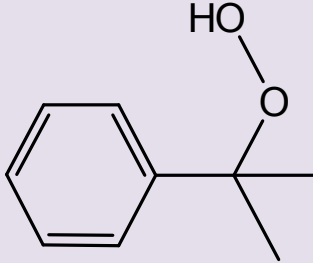
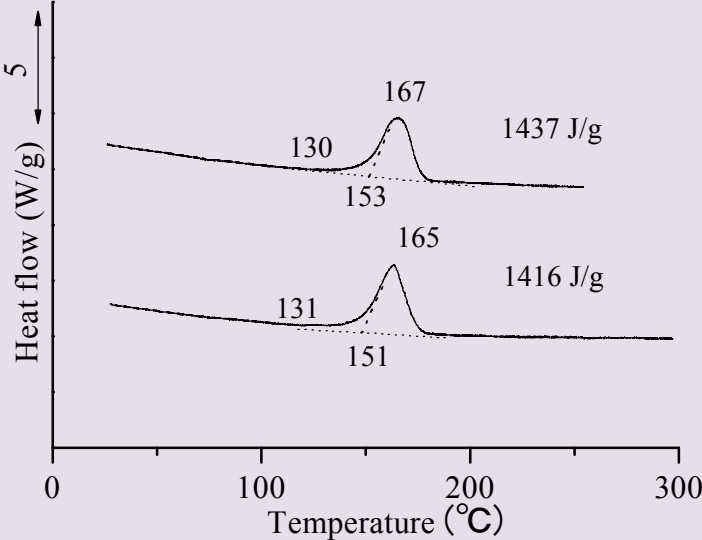
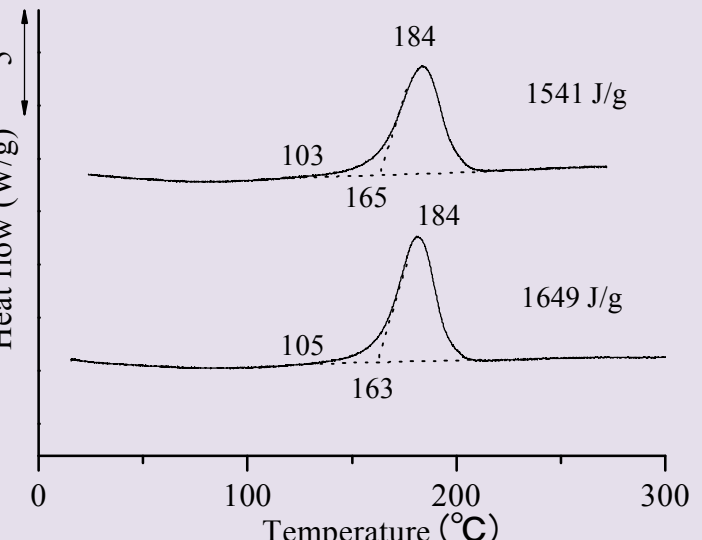
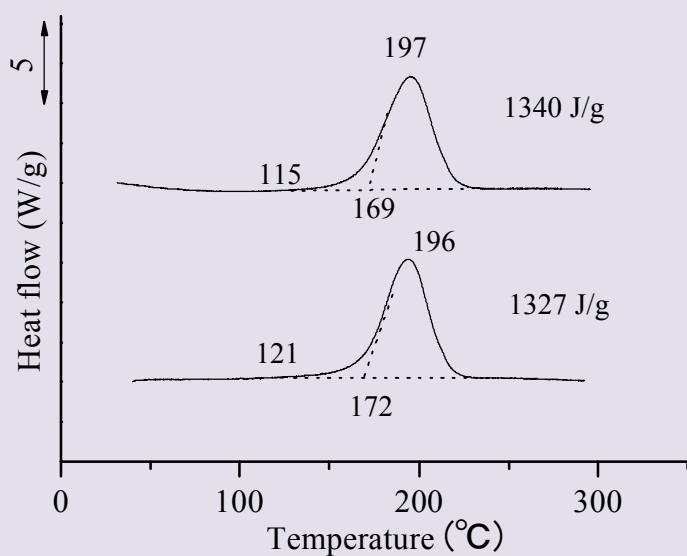


Cumene hydroperoxide	$C_6H_5C(CH_3)_2OOH$ CHP
 <p>+20% cumene</p>	<p>DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: AlfaAesar (> 80%)</p>
<p>a) 2 K/min AlfaAesar: AlfaAesar社 (販売 和光純薬工業株式会社)</p>	
	<p><Average> T_a: 131 °C T_o: 152 °C T_{top}: 166 °C Q_{DSC}: 1427 J/g</p>
<p>b) 5 K/min</p>	
	<p><Average> T_a: 104 °C T_o: 164 °C T_{top}: 184 °C Q_{DSC}: 1595 J/g</p>

c) 10 K/min



<Average>

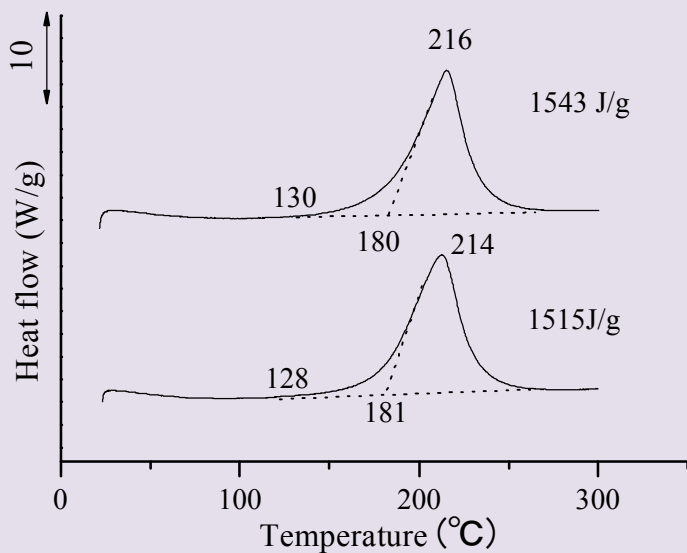
T_a : 118 °C

T_o : 171 °C

T_{top} : 197 °C

Q_{DSC} : 1334 J/g

d) 20 K/min



<Average>

T_a : 129 °C

T_o : 181 °C

T_{top} : 215 °C

Q_{DSC} : 1529 J/g

ASTM PLOT

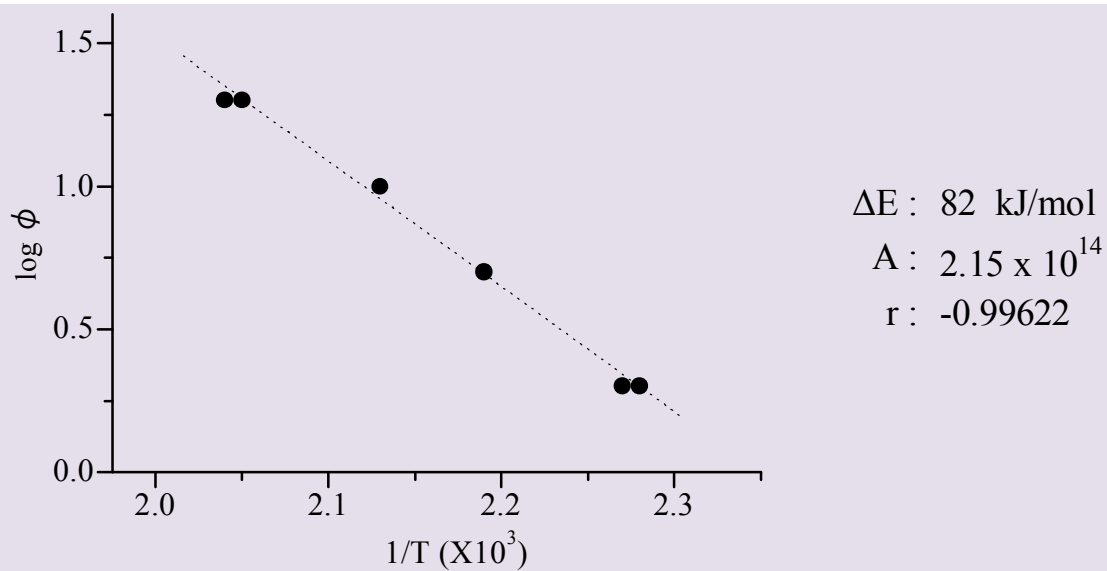


Table (ASTM)

Heat rate ϕ (K/min)	T_{peak} (°C)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	167	440	2.27	0.301
	165	438	2.28	0.301
5	184	457	2.19	0.699
	184	457	2.19	0.699
10	197	470	2.13	1.00
	196	469	2.13	1.00
20	216	489	2.04	1.30
	214	487	2.05	1.30