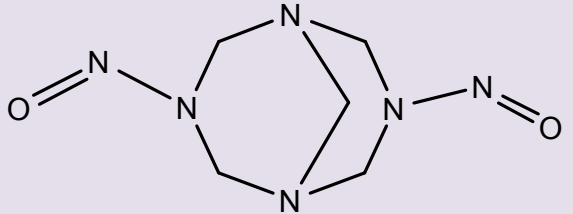
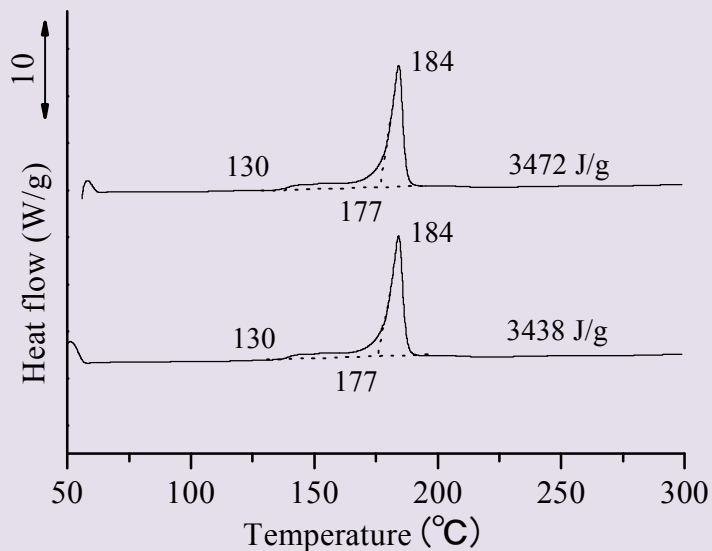


<p>N,N'- Dinitrosopentamethylenetetramine</p>	<p>$C_5H_{10}N_6O_2$ NNDNP</p>
	<p>DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: Wako ($\geq 95.0\%$)</p>

a) 2 K/min

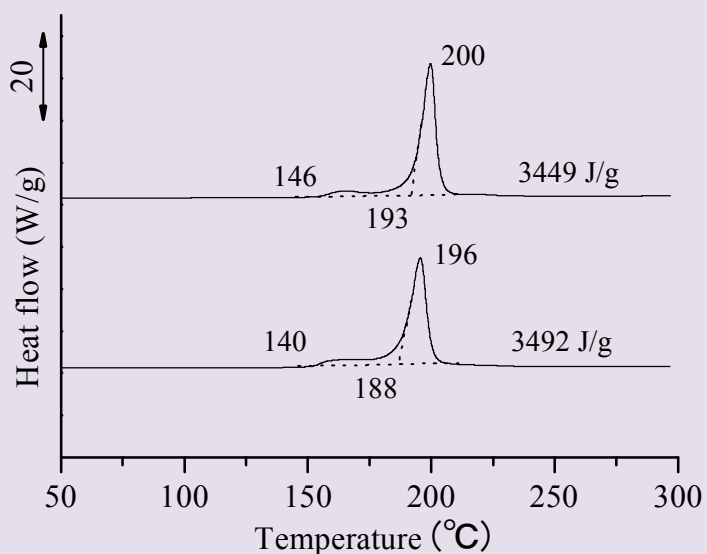
Wako: 和光純薬工業株式会社



<Average>

T_a : 130 °C
 T_o : 177 °C
 T_{top} : 184 °C
 Q_{DSC} : 3455 J/g

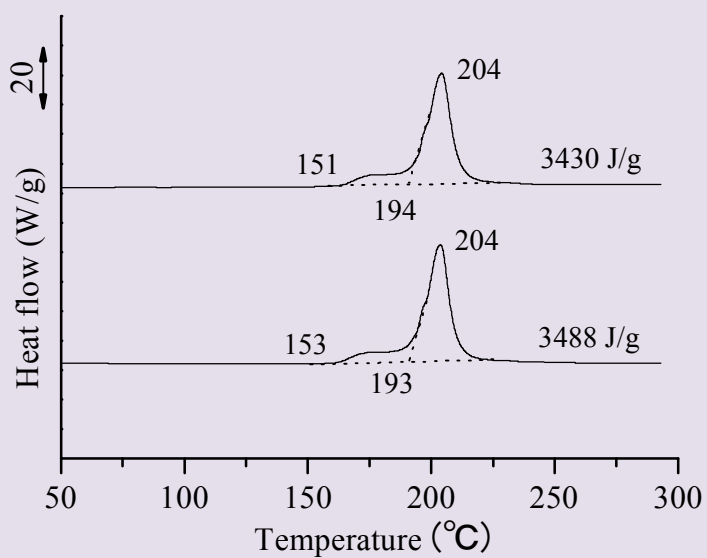
b) 5 K/min



<Average>

T_a : 143 °C
 T_o : 191 °C
 T_{top} : 198 °C
 Q_{DSC} : 3471 J/g

c) 10 K/min



<Average>

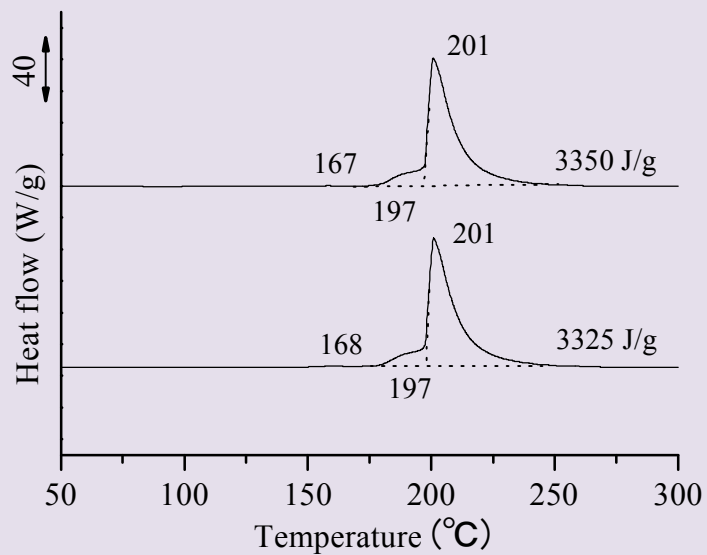
T_a : 152 °C

T_o : 194 °C

T_{top} : 204 °C

Q_{DSC} : 3459 J/g

d) 20 K/min



<Average>

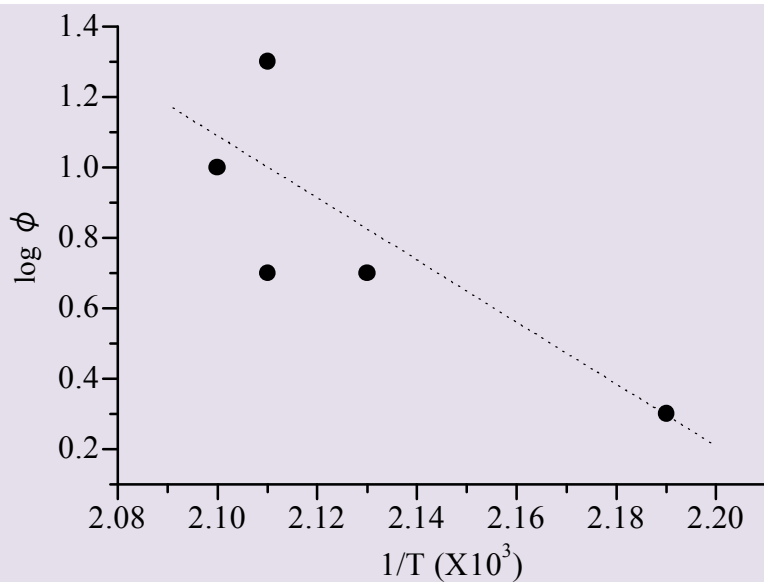
T_a : 168 °C

T_o : 197 °C

T_{top} : 201 °C

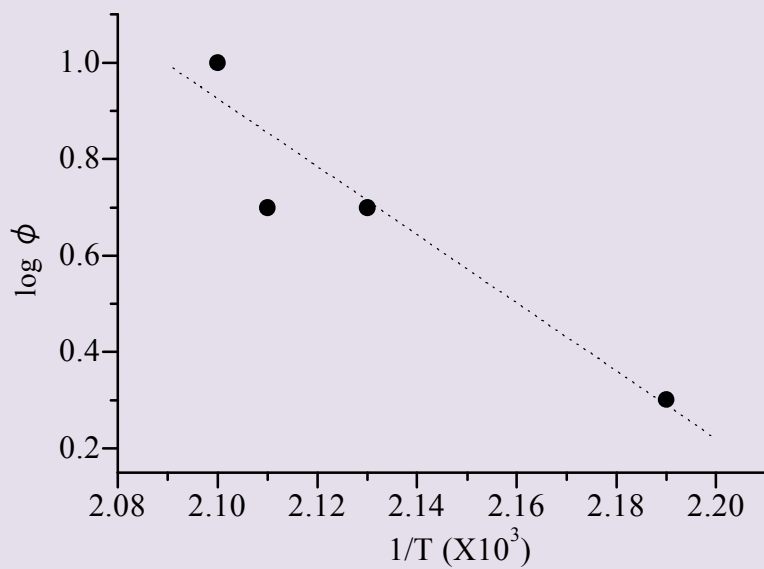
Q_{DSC} : 3338 J/g

ASTM PLOT



Heat rate ϕ (K/min)	T_{peak} (°C)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	184	457	2.19	0.301
	184	457	2.19	0.301
5	200	473	2.11	0.699
	196	469	2.13	0.699
10	204	477	2.10	1.00
	204	477	2.10	1.00
20	201	474	2.11	1.30
	201	474	2.11	1.30

ASTM PLOT (2, 5, 10 K/min)



ΔE : 138 kJ/mol
A : 3.17×10^{24}
r : -0.96285