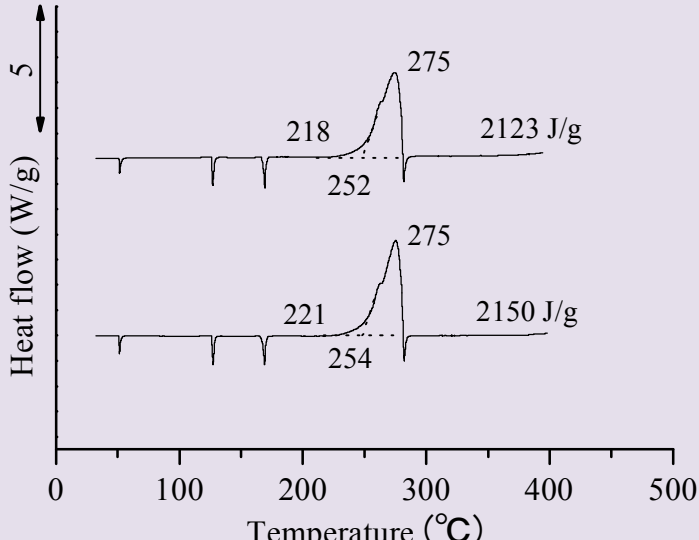
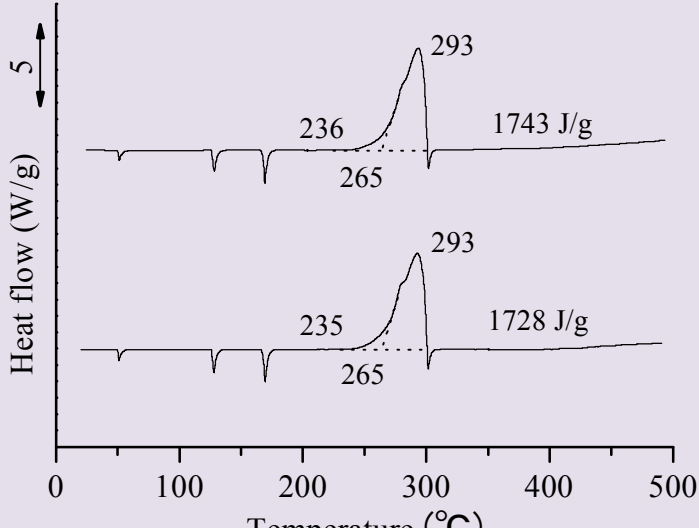
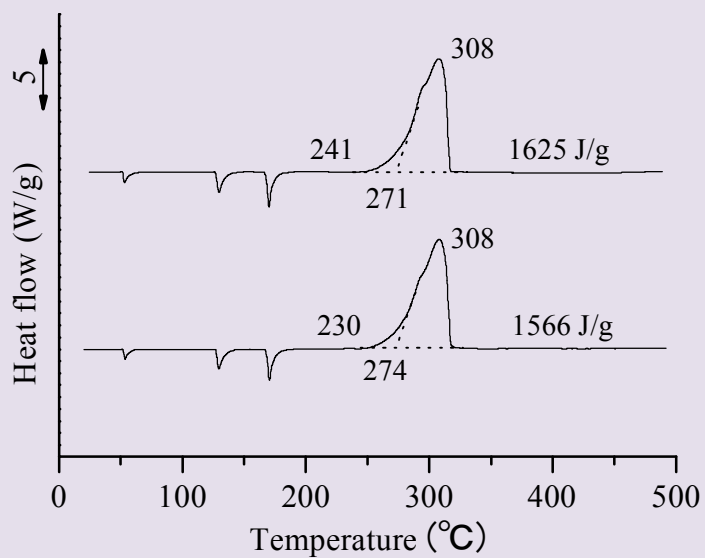


Ammonium nitrate	NH ₄ NO ₃ AN
NH ₄ NO ₃	DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: Wako (> 99.0%)
a) 2 K/min Wako: 和光純薬工業株式会社	
	<Average> T _a : 220 °C T _o : 253 °C T _{top} : 275 °C Q _{DSC} : 2137 J/g
b) 5 K/min	
	<Average> T _a : 236 °C T _o : 265 °C T _{top} : 293 °C Q _{DSC} : 1736 J/g

c) 10 K/min



< Average >

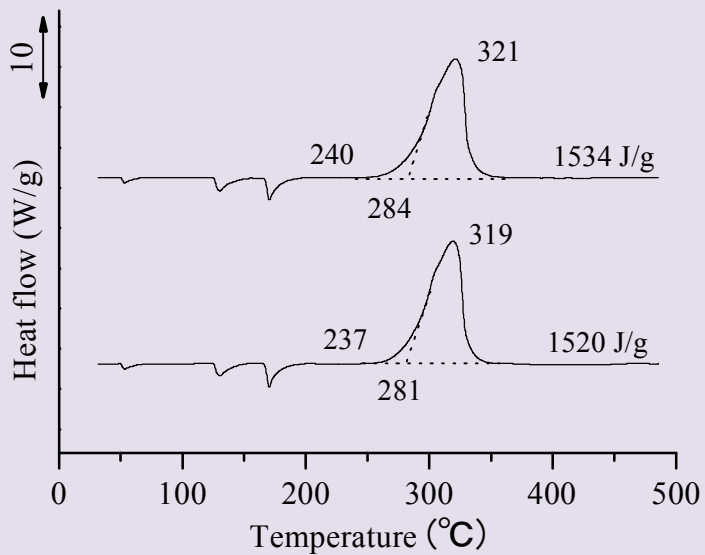
T_a : 236 °C

T_o : 273 °C

T_{top} : 308 °C

Q_{DSC} : 1596 J/g

d) 20 K/min



< Average >

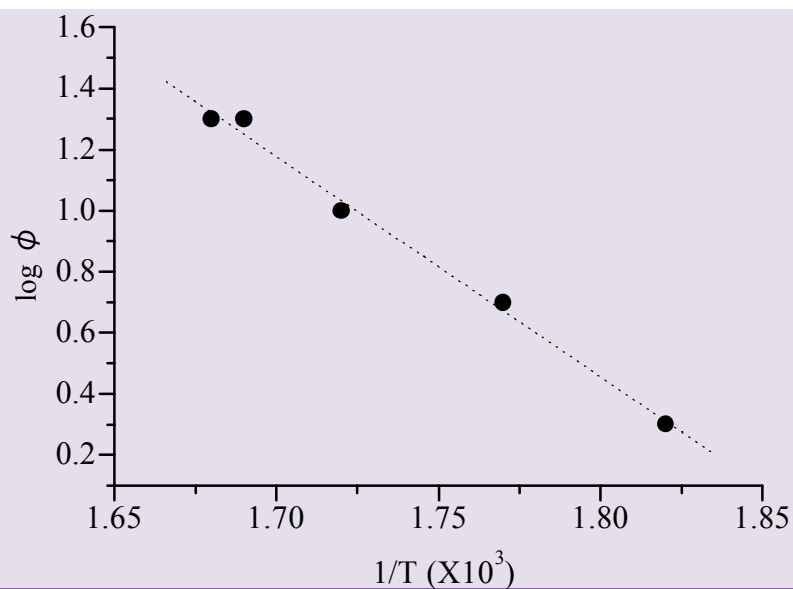
T_a : 239 °C

T_o : 283 °C

T_{top} : 320 °C

Q_{DSC} : 1527 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	275	548	1.82	0.301
	275	548	1.82	0.301
5	293	566	1.77	0.699
	293	566	1.77	0.699
10	308	581	1.72	1.00
	308	581	1.72	1.00
20	321	594	1.68	1.30
	319	592	1.69	1.30