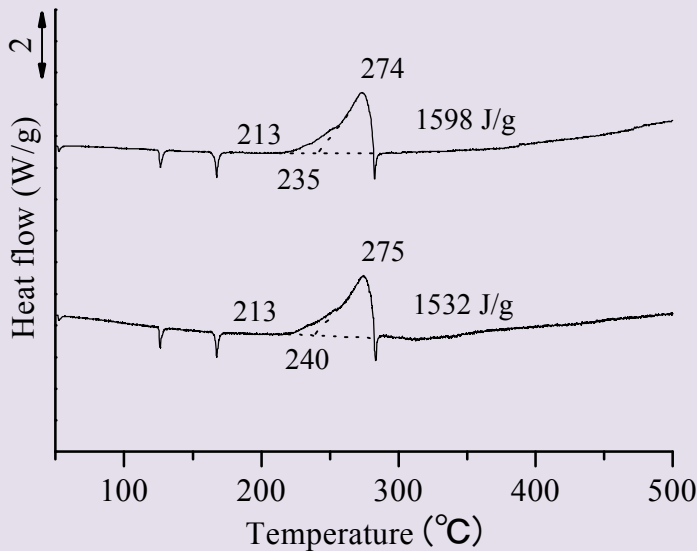


Ammonium nitrate	NH ₄ NO ₃ AN
NH ₄ NO ₃	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: Wako (> 99.0%)

a) 2 K/min

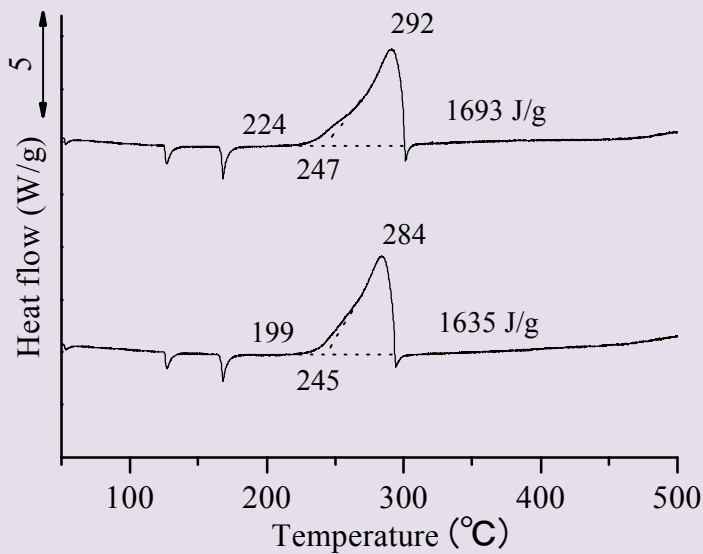
Wako: 和光純薬工業株式会社



<Average>

T_a: 213 °C
 T_o: 238 °C
 T_{top}: 275 °C
 Q_{DSC}: 1565 J/g

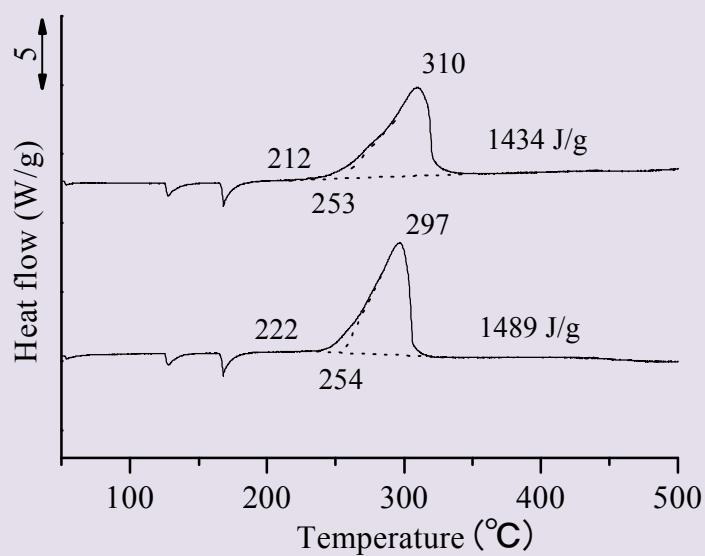
b) 5 K/min



<Average>

T_a: 212 °C
 T_o: 246 °C
 T_{top}: 288 °C
 Q_{DSC}: 1664 J/g

c) 10 K/min



<Average>

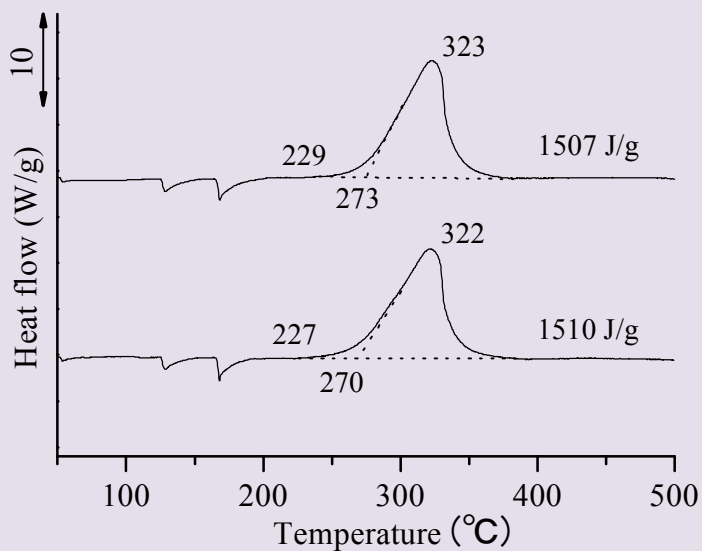
T_a : 217 °C

T_o : 254 °C

T_{top} : 304 °C

Q_{DSC} : 1462 J/g

d) 20 K/min



<Average>

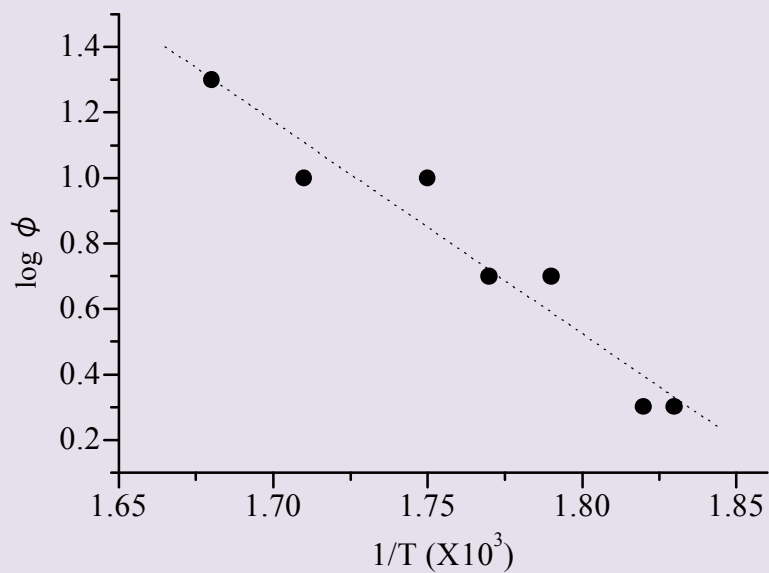
T_a : 228 °C

T_o : 272 °C

T_{top} : 323 °C

Q_{DSC} : 1509 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	274	547	1.83	0.301
	275	548	1.82	0.301
5	292	565	1.77	0.699
	284	557	1.79	0.699
10	310	583	1.71	1.00
	297	570	1.75	1.00
20	323	596	1.68	1.30
	322	595	1.68	1.30