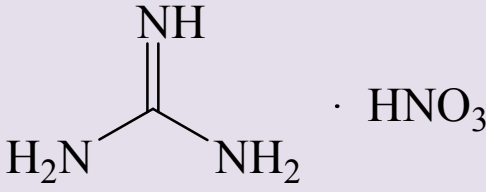
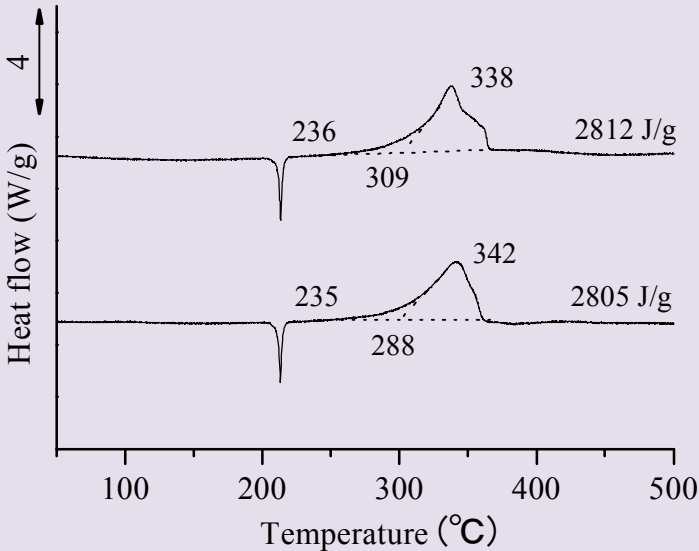
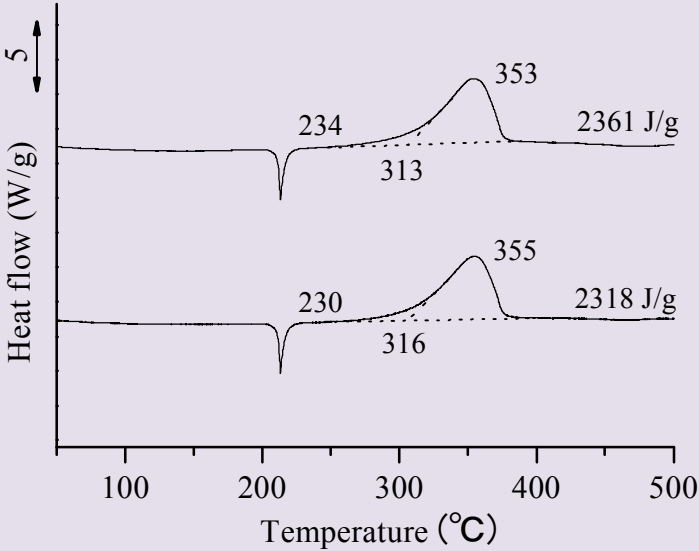
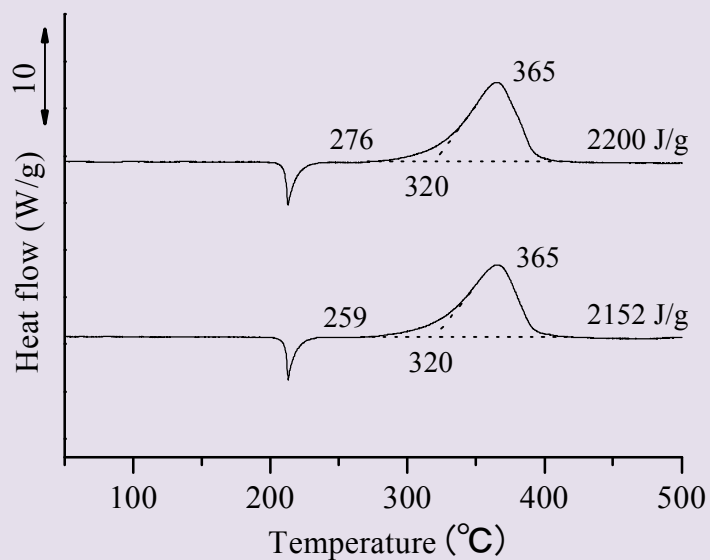


Guanidine nitrate	$\text{CH}_6\text{N}_4\text{O}_3$ GUN
	DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: TGI ($\geq 98.0\%$)
a) 2 K/min TGI: 東京化成工業株式会社	
 <div style="float: right; margin-top: 20px;"> <Average> T_a: 236 °C T_o: 299 °C T_{top}: 340 °C Q_{DSC}: 2809 J/g </div>	
b) 5 K/min	
 <div style="float: right; margin-top: 20px;"> <Average> T_a: 232 °C T_o: 315 °C T_{top}: 354 °C Q_{DSC}: 2340 J/g </div>	

c) 10 K/min



<Average>

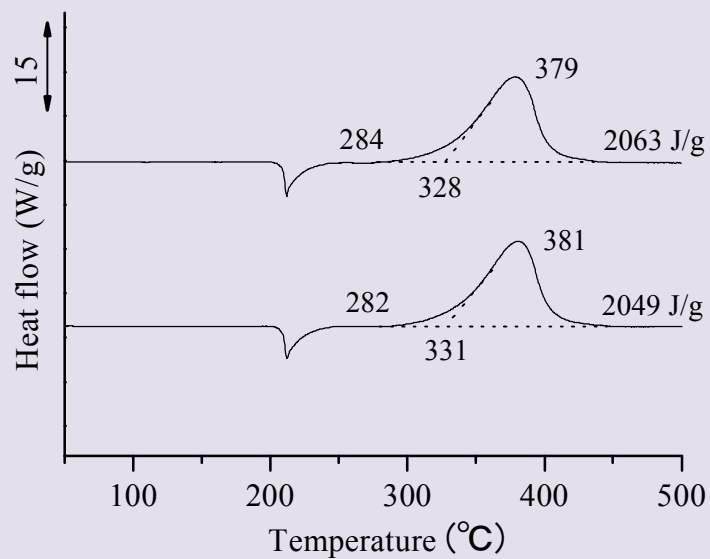
T_a : 268 °C

T_o : 320 °C

T_{top} : 365 °C

Q_{DSC} : 2176 J/g

d) 20 K/min



<Average>

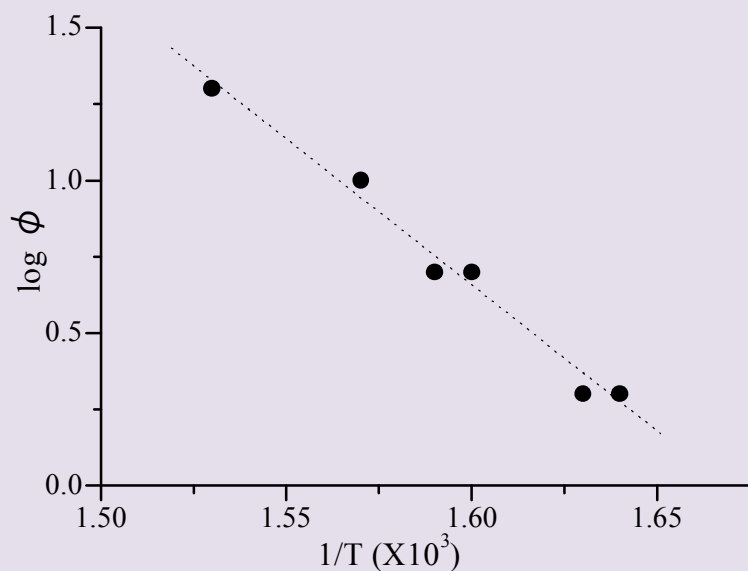
T_a : 283 °C

T_o : 330 °C

T_{top} : 380 °C

Q_{DSC} : 2056 J/g

ASTM PLOT



ΔE : 179 kJ/mol
 A : 4.84×10^{31}
 r : -0.99182

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	338	611	1.64	0.301
	342	615	1.63	0.301
5	353	626	1.60	0.699
	355	628	1.59	0.699
10	365	638	1.57	1.00
	365	638	1.57	1.00
20	379	652	1.53	1.30
	381	654	1.53	1.30