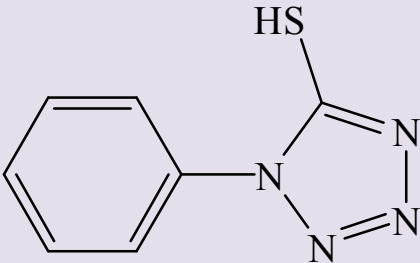
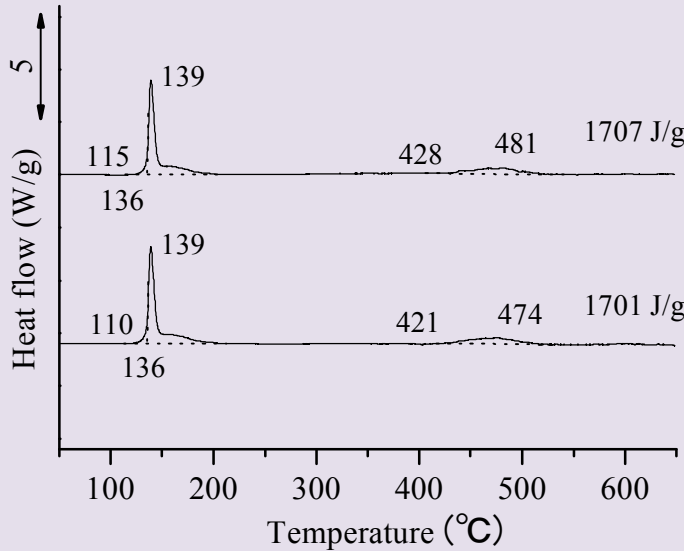
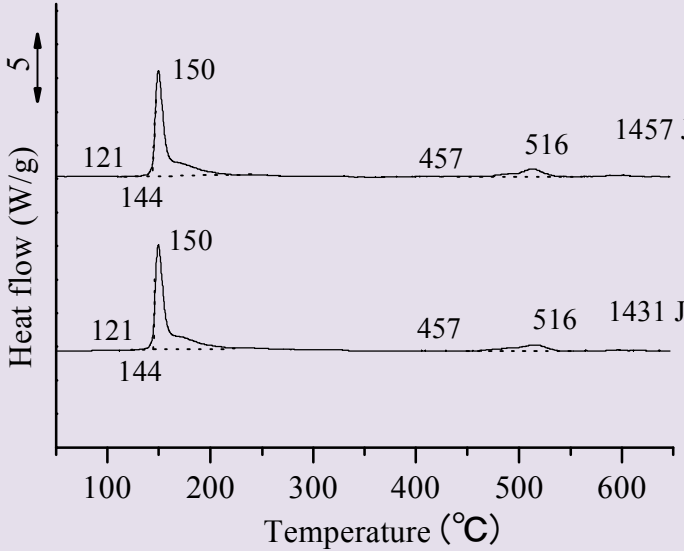
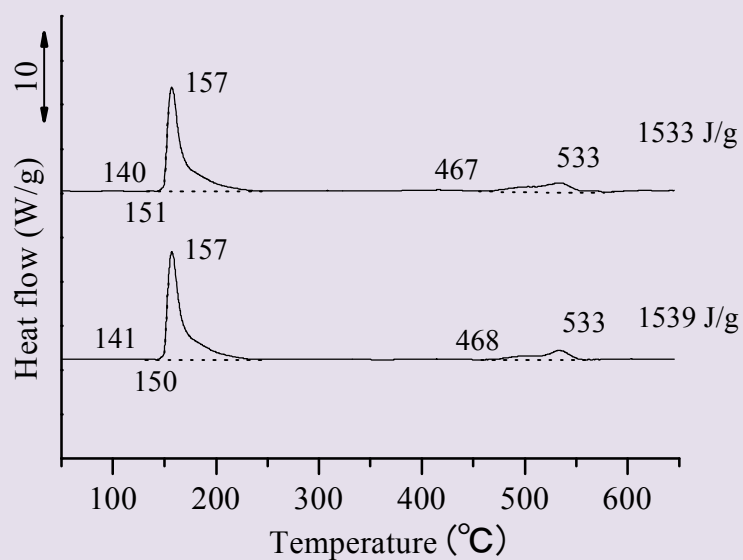


<p>1-Phenyl-5-mercapto tetrazole</p>	<p>$C_7H_6N_4S$ PMT</p>
	<p>DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: TGI (> 98.0%)</p>
<p>a) 2 K/min TGI: 東京化成工業株式会社</p>	
	<p><Average> T_a: 113 °C T_o: 136 °C T_{top}: 139 °C Q_{DSC}: 1704 J/g</p>
<p>b) 5 K/min</p>	
	<p><Average> T_a: 121 °C T_o: 144 °C T_{top}: 150 °C Q_{DSC}: 1444 J/g</p>

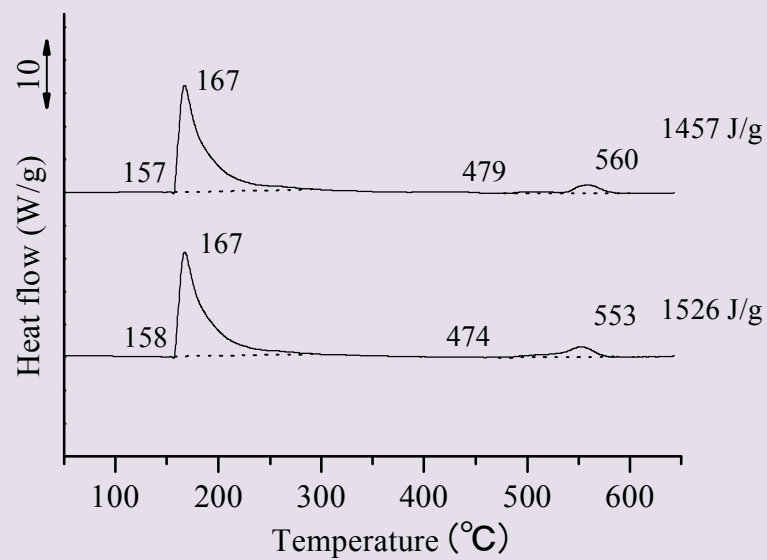
c) 10 K/min



<Average>

T_a : 141 °C
 T_o : 151 °C
 T_{top} : 157 °C
 Q_{DSC} : 1536 J/g

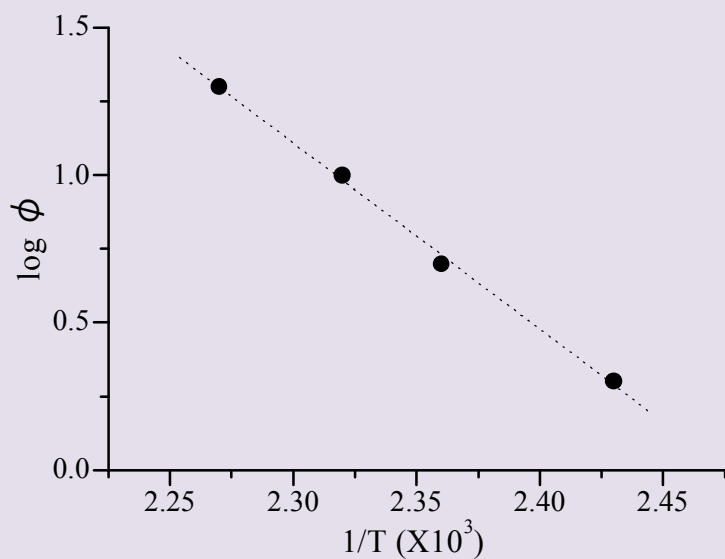
d) 20 K/min



<Average>

T_a : 158 °C
 T_o : 158 °C
 T_{top} : 167 °C
 Q_{DSC} : 1492 J/g

ASTM PLOT



$\Delta E : 118 \text{ kJ/mol}$
 $A : 6.84 \times 10^{20}$
 $r : -0.99869$

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	139	412	2.43	0.301
	139	412	2.43	0.301
5	150	423	2.36	0.699
	150	423	2.36	0.699
10	157	430	2.32	1.00
	157	430	2.32	1.00
20	167	440	2.27	1.30
	167	440	2.27	1.30