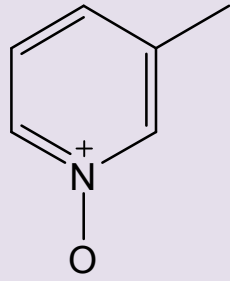
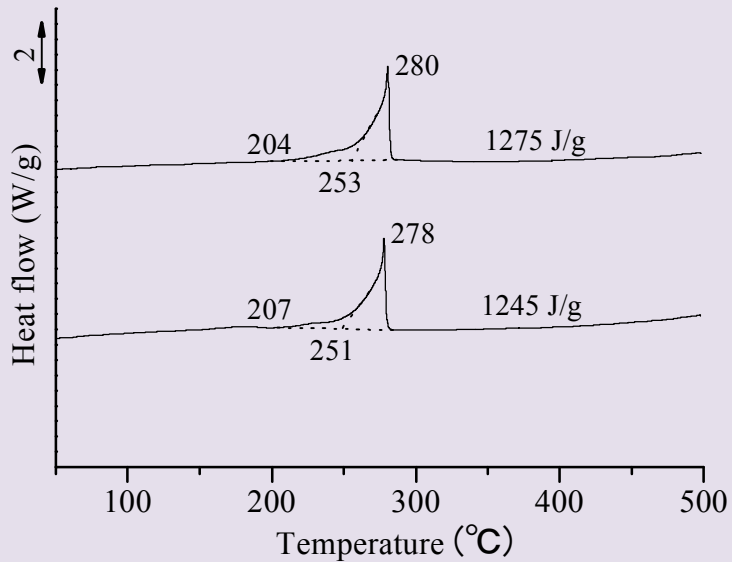


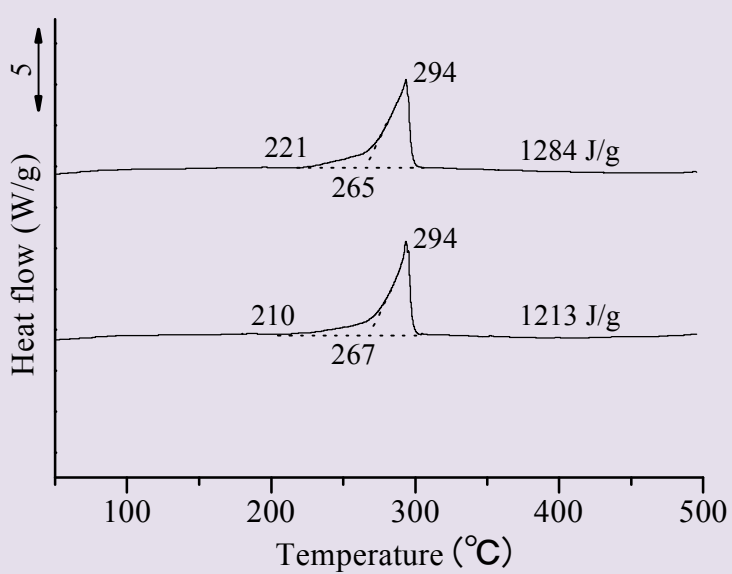
<p>3-Picoline-N-oxide</p>	<p><math>C_6H_7NO</math> 3PNO</p>
	<p>DSC device: SII DSC 7020                  SII Nano Technology Inc.                  dT/dt: 2, 5, 10, 20 K/min                  Atmosphere: Air                  Vesel: pressure vessel (SUS)                  SII Nano Technology Inc.                  Sample: AlfaAesar (&gt; 98%)</p>

a) 2 K/min AlfaAesar: AlfaAesar社  
(販売 和光純薬工業株式会社)



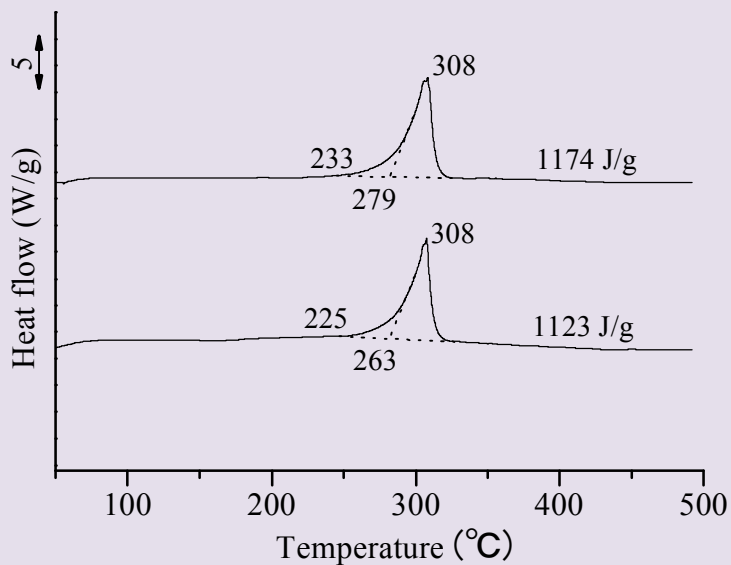
<Average>  
 $T_a$ : 206 °C  
 $T_o$ : 252 °C  
 $T_{top}$ : 279 °C  
 $Q_{DSC}$ : 1260 J/g

b) 5 K/min



<Average>  
 $T_a$ : 216 °C  
 $T_o$ : 266 °C  
 $T_{top}$ : 294 °C  
 $Q_{DSC}$ : 1249 J/g

c) 10 K/min



<Average>

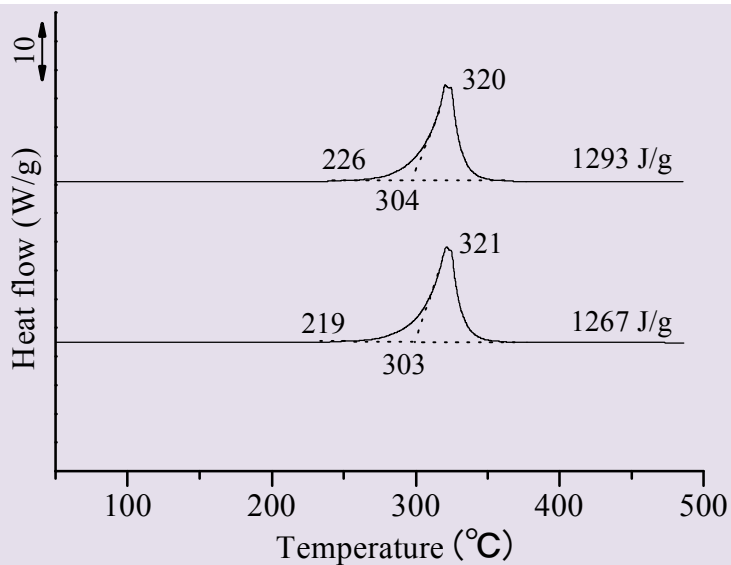
$T_a$  : 229 °C

$T_o$  : 271 °C

$T_{top}$  : 308 °C

$Q_{DSC}$  : 1149 J/g

d) 20 K/min



<Average>

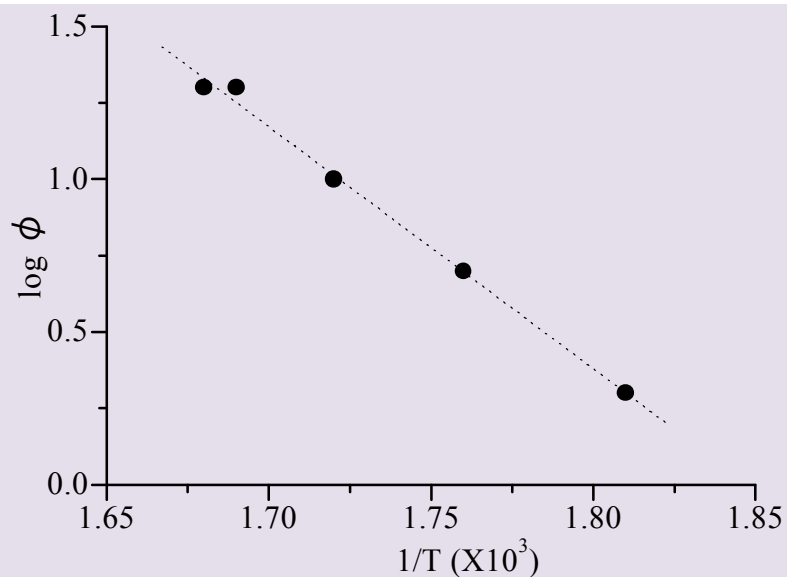
$T_a$  : 223 °C

$T_o$  : 304 °C

$T_{top}$  : 321 °C

$Q_{DSC}$  : 1280 J/g

## ASTM PLOT



Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ (°C)	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	280	553	1.81	0.301
	278	551	1.81	0.301
5	294	567	1.76	0.699
	294	567	1.76	0.699
10	308	581	1.72	1.00
	308	581	1.72	1.00
20	320	593	1.69	1.30
	321	594	1.68	1.30