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E-mail: enuyan79@hotmail.com

$$\ln \left[\frac{w_t}{w_\infty} \right]$$

α

PU

w_t

mg

min

mol

K

R

K/s

40

0

$$\left(1 - \frac{2RT}{E} \right)$$

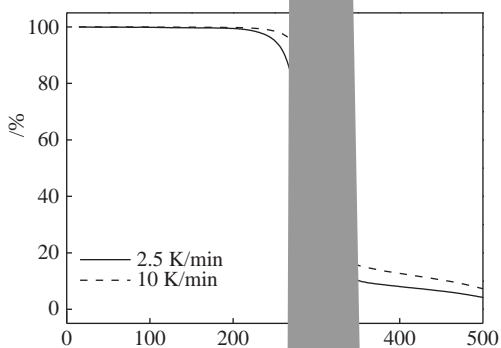
$$\ln \left[\frac{-\ln \left(\frac{1}{r^2} \right)}{r^2} \right]$$

$$\ln \left[\frac{AR}{\beta E} \left(1 - \frac{2RT}{E} \right) \right]$$

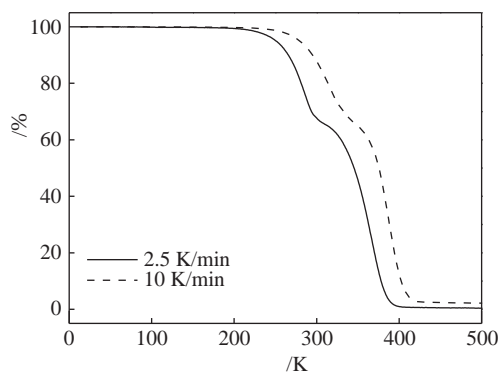
OZA

1.2

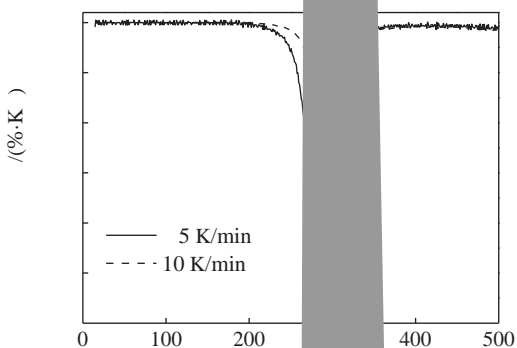
1 2 TG DTG
470~770



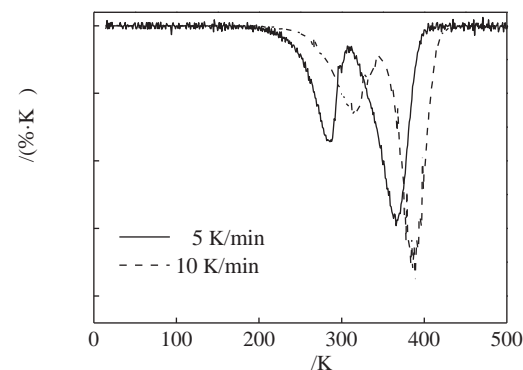
(a)



(b)



(a)



(b)

1

TG

2

DTG

3

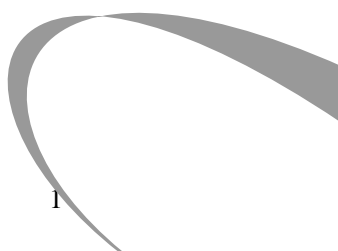
3.1 Coats-Redfern

Coats-R

$$\ln \left[\frac{-\ln(1-\alpha)}{T^2} \right]$$

3

4



530 K

550 K

533 K

555 K

=2.5 K/min

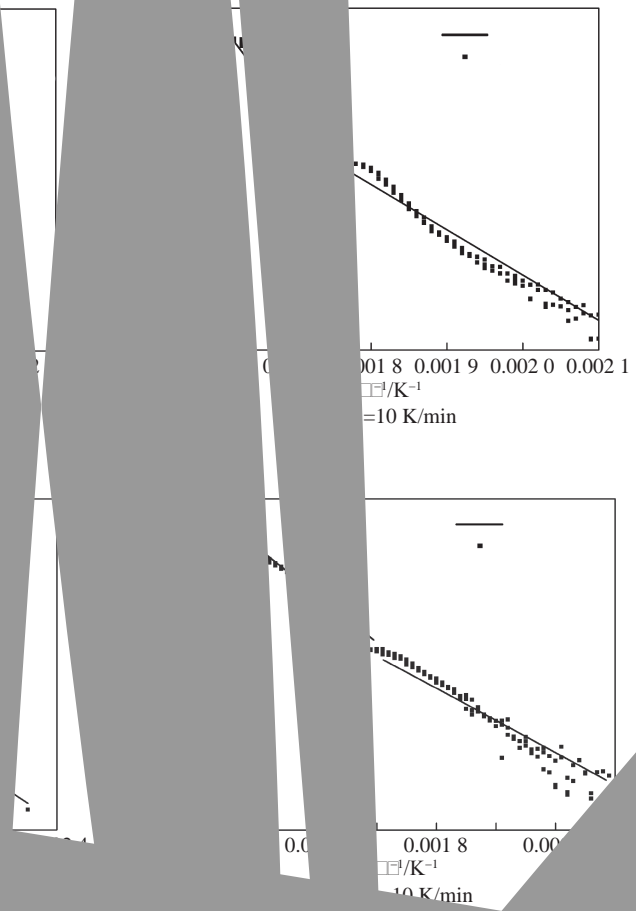
181 kJ/mol

110 kJ/mol =10 K/min

266.19 kJ/mol

205.85 kJ/mol

80%



$\ln(\beta/T^2)$	V/V^*	$\ln(\beta/T^2)$	V/V^*
2.1	120.49	2.1	120.49
2.2	189.75	2.2	189.75
2.3	3.87	2.3	3.87
2.4	5.9×10^8	2.4	5.9×10^8
2.5	5.7×10^8	2.5	5.7×10^8
2.6	9×10^{12}	2.6	9×10^{12}
2.7	1×10^8	2.7	1×10^8
2.8	9×10^{18}	2.8	9×10^{18}

V/V^* enius

$\ln(\beta/T^2)$

20

Marquis

(kJ mol⁻¹)

220
200
180
160
140
120
100
80
60
40
20
0

0.2

4

1

2

3

CCQ/

4

5

6

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CCQ

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