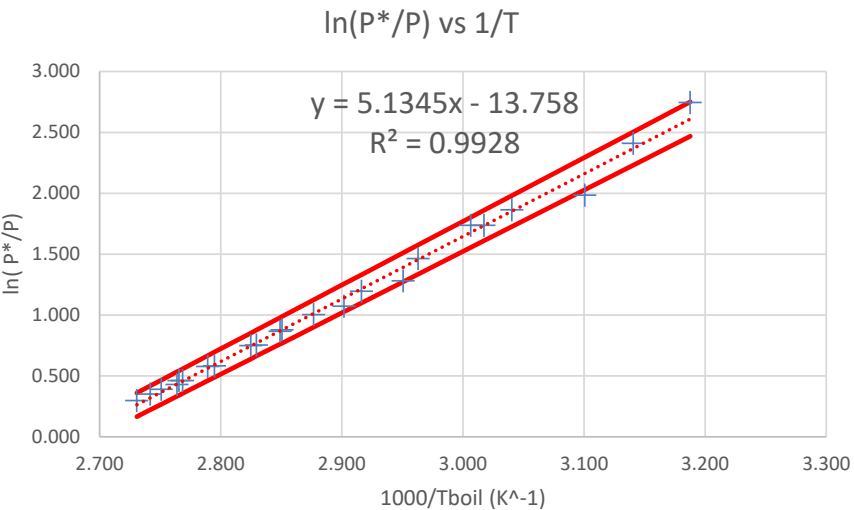


WORKED LINE OF BEST FIT CALCULATION

x	y							
1000/Tboil (K ⁻¹)	ln(P*/P)	x ²	y ²	xy	(y - (mx+c)) ²	y best fit	y steepest	y shallow
3.188	2.747	10.16	7.54	8.76	0.018796994	2.61	2.75	2.47
3.141						7	2.50	2.23
3.101						5	2.30	2.03
3.040						5	1.98	1.73
3.018						4	1.86	1.61
3.007						3	1.80	1.56
2.963						5	1.58	1.34
2.951						9	1.51	1.27
2.916						2	1.33	1.10
2.902						4	1.26	1.03
2.877						1	1.12	0.90
2.851						3	0.99	0.77
2.849						7	0.98	0.76
2.830						7	0.88	0.66
2.825						5	0.85	0.64
2.795						9	0.70	0.49
2.789						5	0.67	0.46
2.769						5	0.56	0.36
2.765	0.463	7.65	0.21	1.28	0.000454047	0.44	0.54	0.34
2.764	0.432						.53	0.33
2.751	0.391						.47	0.27
2.742	0.351						.42	0.22
2.731	0.298						.36	0.17



$$\Delta m = \frac{s}{\sqrt{N}} \frac{1}{\sqrt{V[x]}}$$

$$\Delta c = \frac{s}{\sqrt{N}} \sqrt{1 + \frac{\bar{x}^2}{V[x]}}$$

$$s = \sqrt{\frac{1}{N-2} \sum_{i=1}^N (y_i - mx_i - c)^2}$$

Errors in gradient
and y intercept

xbar	2.894
ybar	1.101
xybar	3.277
x^2 bar	8.393
y^2 bar	1.676
V[x]	0.017
V[y]	0.463
cov[x,y]	0.090
m	5.13
c	-13.76
Lvap	42.69
s	0.06
dm	0.10
dc	0.16
d Lvap	0.79