

Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
AGZM164, Intermediate, C;M;B Geometry, 16x40, 160502-0020, July, 2016

Quadratic Equation: $Y = 0.2551x^2 - 8.4353x + 107.02$

Standard Deviation: 3.85698489

Table of Residuals

No.	X Obs.	Y Obs.	Y Calc.	Difference
1	0.75	99.61	100.84	-1.23
2	1.00	97.31	98.84	-1.53
3	1.00	96.62	98.84	-2.22
4	1.00	99.68	98.84	0.84
5	1.25	97.81	96.87	0.94
	1.25	98.38	96.87	1.51
6	1.50	95.54	94.94	0.60
	1.50	96.40	94.94	1.46
7	1.75	94.13	93.04	1.09
8	2.00	87.19	91.17	-3.98
9	2.00	86.93	91.17	-4.24
10	2.00	94.04	91.17	2.87
11	2.00	92.37	91.17	1.20
12	2.50	88.96	87.53	1.43
13	3.00	77.45	84.01	-6.56
14	3.00	76.52	84.01	-7.49
15	3.00	92.43	84.01	8.42
16	3.25	86.86	82.30	4.56
17	3.50	79.18	80.62	-1.44

Evaluation of Y's

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.50	14.15	102.87
2	0.75	21.23	100.84
3	1.00	28.30	98.84
4	1.25	35.38	96.87
5	1.50	42.45	94.94
6	1.75	49.53	93.04
7	2.00	56.60	91.17
8	2.25	63.68	89.33
9	2.50	70.75	87.53
10	2.75	77.83	85.75
11	3.00	84.90	84.01
12	3.25	91.98	82.30
13	3.50	99.05	80.62
14	3.75	106.13	78.97
15	4.00	113.20	77.36
16	4.25	120.28	75.78
17	4.50	127.35	74.23
18	4.75	134.43	72.71

19	5.00	141.50	71.22
20	5.25	148.58	69.77

