



Methyl Iodide Retention Efficiency Vs. Flow Rate  
 ASTM D 3803 Method A  
 TE1.5, Intermediate, 2.5"x1.5", 8x16, 1984

Quadratic Equation:  $Y = -0.8x^2 - 3.42x + 102.9$

Standard Deviation: 0

Table of Residuals

| No. | X Obs.<br>(SCFM) | Y Obs. | Y Calc. | Difference |
|-----|------------------|--------|---------|------------|
| 1   | 1.00             | 98.68  | 98.68   | 0.00       |
| 2   | 1.50             | 95.97  | 95.97   | 0.00       |
| 3   | 2.00             | 92.86  | 92.86   | 0.00       |

Evaluation of Y

| No. | X Given (CFM) | X Given(LPM) | Y Calculated |
|-----|---------------|--------------|--------------|
| 1   | 0.25          | 7.08         | 102.00       |
| 2   | 0.50          | 14.16        | 100.99       |
| 3   | 0.75          | 21.24        | 99.89        |
| 4   | 1.00          | 28.32        | 98.68        |
| 5   | 1.25          | 35.40        | 97.38        |
| 6   | 1.50          | 42.48        | 95.97        |
| 7   | 1.75          | 49.55        | 94.47        |
| 8   | 2.00          | 56.63        | 92.86        |
| 9   | 2.25          | 63.71        | 91.16        |
| 10  | 2.50          | 70.79        | 89.35        |
| 11  | 2.75          | 77.87        | 87.45        |
| 12  | 3.00          | 84.95        | 85.44        |
| 13  | 3.25          | 92.03        | 83.34        |
| 14  | 3.50          | 99.11        | 81.13        |
| 15  | 3.75          | 106.19       | 78.83        |
| 16  | 4.00          | 113.27       | 76.42        |
| 17  | 4.25          | 120.35       | 73.92        |
| 18  | 4.50          | 127.43       | 71.31        |
| 19  | 4.75          | 134.51       | 68.61        |
| 20  | 5.00          | 141.58       | 65.80        |