STATISTICAL CALCULATIONS

Mean:
$$\bar{\mathbf{x}} = \frac{\sum_{i=1}^{n} \mathbf{x}_{i}}{n}$$

Variance:
$$S^2 = \frac{\sum_{i=1}^{m} (x_i - \overline{x})^2}{m-1}$$

Standard deviation (SD):
$$S = \sqrt{\frac{\sum_{i=1}^{n} (x_i - \overline{x})^2}{n-1}}$$

Relative standard deviation (RSD):
$$RSD = \frac{S}{x}100$$

Confidence interval =
$$\frac{-}{x} \pm \frac{tS}{\sqrt{n}}$$

where **n** is the number of data in the data set; **n-1** is the degrees of freedom; **x**; is the i-th datum in the data set; **t** is the Student's **t** value and it depends on the degrees of freedom and the confidence level selected. In the case of 95% confidence level the **t** values for different degrees of freedom (**n-1**) are tabulated in the following table:

n-1	155	2	3	4	5	6	7	8	9	10	333	12	1.3	1-4
	12.7	4.30	3.18	2.78	2.57	2.45	2.36	2.31	2.26	2.23	2.20	2.18	2.16	2.14
n-1	1.5	1.6	17	1.8	1:9	20	22	25	30	40	50	60	1/2/0	100
	2.13	2.12	2.11	2.10	2.09	2.09	2.07	2.06	2.04	2.02	2.01	2.00	1.98	1.96

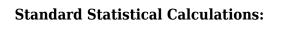
Comparison of the experimental mean with the true value using the Student's t test

If
$$|\overline{x} - \overline{x}| \le \frac{ts}{\sqrt{n}}$$
 there is no statistically significant difference between the measured value and the certified value.

If
$$|\bar{x} - \bar{x}| > \frac{ts}{\sqrt{n}}$$
 TRUE the measured value is statistically significant difference from the true value.

Standard Statistical Calculations

JA Banks



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