

## STATISTICAL CALCULATIONS

$$\text{Mean: } \bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

$$\text{Variance: } S^2 = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}$$

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

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

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

where  $n$  is the number of data in the data set;  $n-1$  is the degrees of freedom;  $x_i$  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:

$n-1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
$t$	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
$n-1$	15	16	17	18	19	20	22	25	30	40	50	60	120	$\infty$
$t$	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  $|\bar{x} - x_r| < \frac{tS}{\sqrt{n}}$  there is no statistically significant difference between the measured value and the certified value.

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

# Standard Statistical Calculations

**North Central Association of Colleges  
and Secondary Schools**



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