

weighted mean

If in a series of observations a statistical weight (w_i) is assigned to each value, a weighted mean \bar{x}_w can be calculated by the formula:

$$\bar{x}_w = \frac{\sum w_i x_i}{\sum w_i}$$

Comment:

Unless the weights can be assigned objectively, the use of the weighted mean is not normally recommended.

Source:

PAC, 1994, 66, 595 (*Nomenclature for the presentation of results of chemical analysis (IUPAC Recommendations 1994)*) on page 599