**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