

ZOLUTO

Calculator of the concentration of solutes in liquid solutions

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Using the program

This program is only intended to facilitate calculation of concentrations in liquid solutions.

Declaration

This program free for noncommercial use.

The product is supplied on an "AS IS" without warranty of any kind including without limitation, warranties of that is free from defects. End User assumes all risk as to quality and product performance.

The program's author is not responsible in any way about the indications and/or treatments included in the program, responsibility is assumed entirely by the end user. Furthermore the author is not responsible for any damages that might be caused by any content offered by the product.

Properties:

To convert between Molar and grams/liter concentration units.

To calculate the mass of solute necessary to prepare a given solution.

To calculate the initial volume of a stock solution with the same purpose.

To calculate a final volume of a dilution.

To calculate the final concentration of a dilution.

To create, import and export a list of compounds to be used in the calculations.

To save and print the results.

limitations:

1. The program does not calculate the volume occupied by a solid solute. At the moment the program considers that the volume occupied by the solid compound is "zero", therefore must be cautious since results can be obtained where X grams of compound actually take up more volume than the final volume of solution (this will be resolved in an upcoming release).
2. The program does not include a solute concentration by evaporation. In the vast majority of cases, to prepare a solution the solute is available as a drug in pure form or as a solution of higher concentration.

3. At the moment the program does not limit the maximum solubility of a compound. This limitation leads to that a solution is not possible to prepare due to the "calculated concentration" exceeds the maximum solubility of compound in the solvent.
I recommend using common sense in such cases.