

Simple Solutions windows

1 Menu bar
2 Tools bar
3 Simple Solutions tab: To make calculation with one compound at the time
4 Complex Solutions tab: To make calculation with one or more compound at the time
5 Common Solutions tab: It has a list of the more common solutions used in Biochemical labs
6 List of compounds (added manually by the user). It has name and MW of the compounds
7 Add/Remove compound buttons. Allows to create and modify a list of compounds
8 Data field: All needed data have to be inserted here
9 Calculate button: Runs the calculation
10 Type of calculation: before run a calculation, you have to select the type of calculation first
11 Clear button: erase all input data from the data field
12 Result field: Output will appear here
13 Comments field: You can use this field to add comments before save a solution file

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Complex Solution Windows

The screenshot shows the ZOLUTO software window. The interface includes a menu bar (1), a toolbar (2), and three tabs: Simple Solutions, Complex Solutions (3), and Commons Solutions. The main area contains a table of compounds (4) with columns for Compound, Molecular Weight, Mass, Initial Concentration, Initial volume, and Final Concentration. A text field (5) for 'Agregue aquí el nombre de la solución' and another (6) for 'Solvente' are present. The table lists Al-Fluoruro (AlF3), Na-Cloruro (NaCl), and Metanol (CH3OH). Below the table is a 'Calculate' button (8) and a dropdown menu for calculation type (9). A 'Final volume' field (10) is set to 250 mL, and a 'Clear all' button (11) is also visible. The 'Result' section (12) displays the calculation results, including the names of the compounds and their masses. A 'Comments' field (13) is located at the bottom.

Compound	Molecular Weight	Mass	Initial Concentration	Initial volume	Final Concentration
Al-Fluoruro (AlF3)	83,97674	q/mol	0	100	1
Na-Cloruro (NaCl)	58,443	q/mol	1	L	10
Metanol (CH3OH)	32,04	q/mol	0	L	1000

Result
 Agregue aquí el nombre de la solución
 Solvent: Solvente
 Final Volume: 250 mL
 Calculation of: Moles/Mass/Initial Volume

1) 20,99 g -----> Al-Fluoruro (AlF3)
 2) 2,50 mL -----> Na-Cloruro (NaCl) (1 Molar)
 3) 8,01 mg -----> Metanol (CH3OH)

Add Solvente to complete 250 mL

- 1) Menu bar
- 2) Tools bar
- 3) Complex Solutions tab: To make calculation with one or more compound at the time
- 4) List of compounds (added manually by the user). It has name and MW of the compounds. It input a name and MW at the last compound
- 5) Solution Name : To add the name of the solution
- 6) Solvent name : To add the name of the solvent
- 7) Data field: All needed data have to be inserted here
- 8) Type of calculation: before run a calculation (Calculate button), you have to select the type of calculation first
- 9) Add/Remove compounds to the solution: It add or remove the last compound of the list
- 10) Final Volume
- 11) Clear button: erase all input data from the data field
- 12) Result field: Output will appear here
- 13) Comments field: You can use this field to add comments before save a solution file

Commons Solution Windows

1) Menu bar
2) Tools bar
3) Common Solutions tab
4) Solutions Category: All solution are classified according its regular use in the lab
5) List of Solutions Name: After select a category, the list of available solution will show here
6) Solution Field: the information of the selected solution is shows here
7) Calculate button
8) Final Volume
9) Concentration Factor: In order to make more concentrated solutions
10) Result field: Output will appear here
11) Comments field: Same warning and comments will appear here

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- 6) Solution Field: the information of the selected solution is shows here
- 7) Calculate button
- 8) Final Volume
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