**MolCalc User Manual**

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MolCalc is an application that calculates the molar mass of a molecule.

**Application components:**

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A screenshot of a computer

Description automatically generated

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1. Atomic symbol input box
   * Input the atomic symbol of one element of your molecule
2. Number of atoms input box
   * Input the number of atoms of that element
3. Add atom button
   * Add the next element in your molecule
4. Molar Mass output box
   * Shows the molar mass of your molecule
   * Updates every time you press the “Add atom” or “Calculate Molar Mass” button
5. Messages
   * Displays Success message if atomic symbol is correct or Error message if atomic symbol is incorrect
6. Calculate Molar Mass button
   * Press this to calculate the molar mass of your molecule

**Instructions**

1. Enter the atomic symbol of one element of your molecule in the Atomic Symbol input box.
2. Enter the number of atoms in the Number of Atoms input box.
3. If there are more atoms in your molecule, press “Add atom”.
4. Repeat steps 1-3 for each atom in your molecule.
5. Press “Calculate Molar Mass” when each element has been added.
6. Molar mass will appear in Molar Mass output box

**Common Errors and Solutions**

* Entering the entire molecule in the Atomic Symbol input box
  + Enter each atomic symbol and the number of atoms in the appropriate boxes, then press the “Add atom” button
* Entering the Atomic symbol incorrectly
  + Enter the atomic symbol using the correct capitalization as seen on the Periodic Table
  + User will see an error message and the “Add atom” button will stop working until atomic symbol is entered correctly
  + Retype atomic symbol in box and the “Add atom” button will work again. User may continue calculation.