

The Law of Conservation of Mass

In all types of changes, chemical or physical, the total mass of the system remains the same, providing nothing is added or allowed to escape.

Since the balance sensitivity is ± 0.02 grams, changes of \leq to 0.02 grams means there was no change in mass.

Chemical Change: Any process or reaction that results in a rearrangement of atoms to make a new substance. Usually accompanied by a change in temperature, color, odor and release of gas, etc.

Physical Change: Any change to a substance that doesn't change it into a new substance. Examples include changes in size, shape, state of matter.