

# Composition of matter

Indicate if each of the following is a homogeneous mixture, a heterogeneous mixture or a pure substance

- a) Sea water has a homogeneous appearance; if left in the Sun, the water evaporates leaving a trace of salt. Salt is a
- b) Mud consists of sand and water; if we subject it to centrifugation, we separate the water from the sand. Mud is a
- c) The oil and vinegar that we use to dress a salad can be mixed beforehand, chefs call this emulsifying. This emulsion is a
- d) The air that surrounds us is not only oxygen, it is mostly formed by nitrogen.  
Air is a
- e) Pure water consists of molecules composed of two hydrogen atoms and one oxygen atom. All water molecules are the same, it is a
- f) The soluble cocoa that we put in our milk ends up being deposited at the bottom of the cup, even if we use the so-called “instantaneous” ones. The glass of milk with cacao in it is a