

1- Select homogeneous and heterogeneous mixtures from the following:

(i) homogeneous mixture - salt solution, Water, air, sea water, sand, fruit juice
heterogeneous mixture - petrol, charcoal, alcohol, mist, brass

2- Define the following with an example for each:

(a) Pure substance - A chemical substance is a form of matter having constant composition and characteristic properties.

(b) Impure substance - An impure substance is made of two or more elements or compounds that

are not bonded together chemically

(c) Alloy - a solid combination of atoms of two or more metals

(d) A solution - with solute that dissolves until it is unable to dissolve anymore, leaving the undissolved substances at the bottom

e) Heterogeneous mixture is a mixture in which the composition is not uniform throughout the mixture

f) Homogeneous mixture - A homogeneous mixture has a uniform composition and has only one phase.