

9/9/21
HW.

Pure Substances & Mixtures; Separation of Mixtures.

classmate

Date _____

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1 Differentiate between pure substance and mixture.

ans

Pure substance

mixture

i) Pure substances are ~~any~~ either elements or compounds.

A substance in which some other substances are also present in smaller or larger amount is called a mixture.

ii) They contain the same kind of ~~atom~~ atoms and molecules and have a definite set of physical and chemical properties.

A mixture may consist of elements or compounds or both. Mixtures can be solid, liquid and gas.

iii) Ex - Gold is an element which contains the same kind of atoms.

Ex - air is a mixture. Its constituents are oxygen, nitrogen, carbon dioxide, water vapour, dust particles, microbes, smoke, etc.

2 Give 3 examples each of homogeneous and heterogeneous mixture

Homogeneous \Rightarrow Brass, ~~water~~ salt + water, Water + Alcohol.

Heterogeneous \Rightarrow sand + iron filings, chalk in water, oil in water.

3 Explain the principle of the process of winnowing for separation of solid-solid mixture.

Ans When the mixture contains light and heavy particles. The process of separation of grain from husk and hay with the help of wind is called winnowing.