

HW
05/09/2021

Ch-2. Is Matter around us Pure

Q1 Give five major differences between elements and compounds.

Ans → Elements	Compounds
(i) Elements are made pure substances which are composed of only one type of atom.	(i) Compounds are substances which are formed by two or more different types of elements that are united chemically in fixed proportions.
(ii) A monoatomic element cannot be split up into its components by physical or chemical methods.	(ii) A compound can be split up into its components by chemical methods.
(iii) There are nearly 118 elements (at present) of which nearly 94 occur naturally on Earth.	(iii) Compounds are almost endless.
(iv) The property of an element is the property of its atoms.	(iv) The property of a compound is quite different from that of its constituent atoms.

(v) Some examples of elements are :- Iron, Copper, Gold etc.

(v) Some examples of ~~element~~ compounds are :-
NaCl (salt), H_2O (water),
 CO_2 (carbon dioxide) etc.

Q) Explain, why we say H_2O is a compound but H_2 and O_2 are elements?

Ans) Hydrogen and Oxygen are elements whereas Water (H_2O) is a compound because water ~~and~~ contains two elements combined together in a fixed proportion by mass and ~~Hydr~~