

Homework :-

- 1) Give 5 major differences between elements & compounds.
- 2) Explain why H_2O is a compound but H_2 & O_2 are elements?

Answers :-

1)

Elements

i) Composed of same atoms.

ii) Can^{not} be broken into simpler substance.

iii) Can be represented in symbols.

iv) Only 118 in no.

v) Ex :- H_2O ,

$NaCl$

Compounds

i) Composed of diff. atoms.

ii) Can be broken into simpler substances

iii) Can be represented in molecular formula.

iv) Can be infinite.

v) Ex :- H, O, Na

2) * Hydrogen (H_2) and Oxygen (O_2) are elements because they are single atoms that cannot be further divided.

* Whereas, H_2O (water) is the combination of 2 elements H , O that together form H_2O and can be further divided.

* Therefore, H_2 & O_2 are elements but H_2O is a compound.