

## Is Matter Around Us Pure Pure Substances

### ❖ Pure substance:

A homogeneous material which contains particles of only one kind has a definite set of properties, is called a pure substance. OR

A pure substance is a distinct type of matter that cannot be separated into other of matter by any physical process e.g. oxygen, sulphur, iron etc. are pure substance however, if a substance is composed of two or more different kinds of particles combined together in fixed proportion by weight, then the substance is also regarded as pure substance. e.g. Sodium chloride is a pure substance, because it has a fixed number of sodium and chloride ions, combined together in fixed proportion by weight, Similarly, magnesium oxide (MgO), Carbon dioxide (CO<sub>2</sub>) copper sulphate (CuSO<sub>4</sub>) etc. are pure substance

**Note :** It does not imply all homogeneous substance for example, common salt solution in water, is a homogenous solution. Yet it cannot be called a pure substance, as it made of two different substance e.g. salt and water.