

Change that alters the physical properties of matter without changing the chemical composition

Defintion

Physical changes

No new product is formed

No net gain or loss of energy

No change in the weight of substance

Change is temporary and reversible

CHANGES IN MATTER

Change in the weight of new substance

Change is permanent and irreversible

New product is formed

Net gain or loss of energy

Defintion

Change that alters the chemical properties of matter with changing the chemical composition

Chemical changes

Example

Burning of Mg in air



Burning of LPG

(Iron surface gets covered with a brown flaky substance)

Corrosion



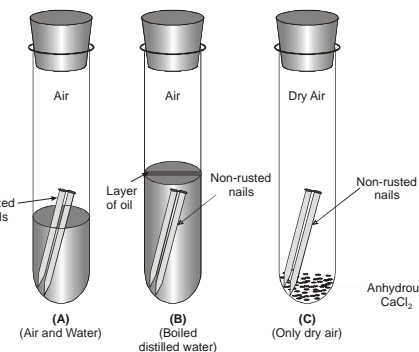
Rusting

1. Presence of air
2. Presence of water

Conditions

Prevention

Equation



1. Iron surface coating with thin layer of paint, varnish
2. Iron surface coating with zinc (galvanization)
3. By alloying (Fe, Cr, Ni)

(Pure soluble substance separates out in the form of crystals)



Dissolving of NaCl in water

Crystallisation

Example

Action of heat on iodine

Switching on an electric bulb