Unit 8: gas chemistry

Gas	54 im pile
Nitropen	78
Oxygen	2.1
Carbon dioxide	0.03-0.04
Niobile gases:	Small proportions
Water vapour	Wartes
Hydrogen	0



Properties of gases: Hydrogen

Hydrogen is the lightest of all elements. On the Earth it occurs in many compounds. Outside the Earth it is the most common element in the Universe.

Znís) + H2SO4(aq) ______ ZnSO4(aq) + H2(g) (Copper suffate acts as a catalyst)

Observations:

- Bubbles of colourless gas
- cinc granules get smaller and eventually disappear
- bottom of flask hot to touch

Physical properties: it is made up of distortic molecules, H - H or H2.

Density: least dense gas known

Collour: collourless

Ordour: odpurless

Solubility in water: almost insoluble in water.

Oxidation and reduction reactions.

Oxidation	Reduction
Gain of oxygen	Loss of anygen
Loss of hydrogen	Gain of hydrogen

An axidising agent provides the axygen. A reducing agent removes the axygen. When both oxidation and reduction occur in a reaction, it is called a REDOX reaction. RED = reduction OX = axidation.

copper + water.

Charles # HarOyan

Redox reaction-oxidation and reduction occur at the same time

1. Reaction with air

Hydrogen gas burns in excess air, specifically with oxygen gas, with a blue flame, to form water vapor.

This is an example of an axidation reaction, i.e. oxygen has been added to the hydrogen gas to form water

2Hros + One 2Hr0m

Oxidising apent: Owegen gas

Reducing agent: hydrogen gas

As a reducing agent.

Hydrogen gas can act as a reducing agent by removing oxygen-

from a compound. If passed over hot copper (II) exide it will

remove the oxygen as shown below.

Copper (N) oxide + hydrogen gas

CurCon + Have ___

Colour change: Black to prob/orange

This is another example of a redox reaction

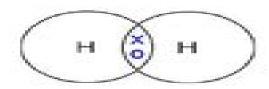
3. With nitrogen gas (see next section)

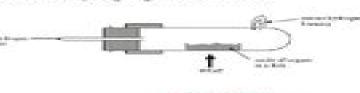
Uses of hydrogen gas

- It is used in meteorological (weather) balloons.
- It is used in hardening oils i.e. margarine production.
- It is used as a rocket fuel.
- It has the potential to be a clean fuel for transport.

Clean fuel: Water is the only waste product and this is non-polluting

- Safe in fuel cells but expensive to run.
- Stored under pressure as a liquid-energy expensive as it needs insulation
- Metal containers coasted with non-porous materials to reduce diffusion of gases.
- Leaks may damage ozone layer.
- Costly distribution systems to be set up, highly flammable.







The Ebentials Of Gcse Double Award Chemistry Materials And Their Properties

Yan Bai

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