

Name:

Class:



Name the two solids involved in the extraction of aluminium.

Bauxite and cryolite

Both must be stated to be correct.

Describe the test to show that a gas is chlorine.

Test: moist/damp blue litmus paper.

Positive result: if the gas is chlorine the damp blue litmus paper will turn red and is then bleached white.

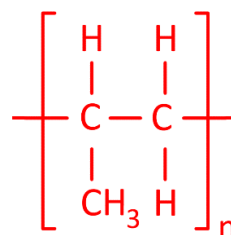
State the meaning of the term redox.

Redox means that an oxidation and reduction reaction have both occurred.

What is oxidation?

The loss of electron(s) from an atom.

Draw the repeat unit for poly(propene).



State two uses of poly(propene).

Any **two** from:

Buckets, bowls, ropes and carpets.

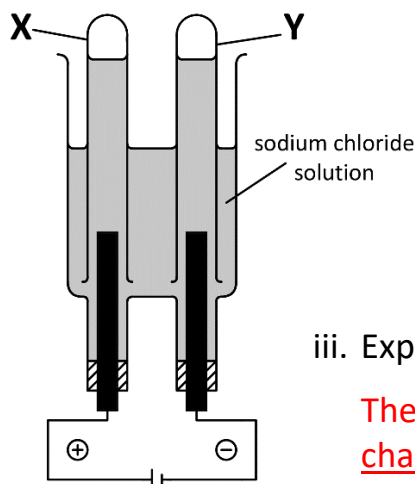
State the functional group of an alcohol?

OH or hydroxyl group

Identify the two compounds that are needed to form methyl ethanoate.

Methanol and ethanoic acid

The figure below shows the electrolysis of sodium chloride solution.



i. Identify the gas collected at X.

Chlorine (gas)

ii. Identify the gas collected at Y.

Hydrogen (gas)

iii. Explain why sodium chloride solution conducts electricity.

The solution is aqueous so the ions are free to move and carry charge.

Describe a test to show that ammonium ions are present in a sample.

Test: add some sodium hydroxide solution gently heat the sample over a Bunsen burner.

Positive result: damp red litmus paper will turn blue.

Why do all metals in Group I react in a similar way?

They all have one electron on their outer shell.