

Name:

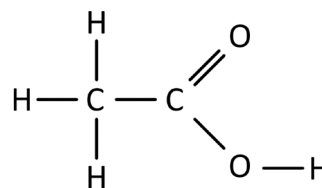
Class:



Describe a test to show that a gas is oxygen.

Test: glowing splint.**Positive result:** if the gas is oxygen the splint will relight or reignite.

Identify the following compound.

**Ethanoic acid**

Describe a test to show the presence of sulfate ions in a solution and state the positive result.

Test: add some HCl or HNO₃ to the sample. Then add a few drops of barium chloride solution to the sample being tested.**Result:** if sulfate ions are present a thick white precipitate will be seen. This precipitate is barium sulfate.Aluminium oxide contains Aluminium ions, Al³⁺, and oxide ions, O²⁻.

What is the formula for aluminium oxide?

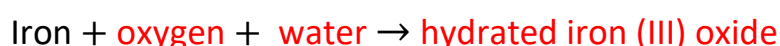


What would be seen when butene is passed through bromine water?

A colour change from orange to colourless.**Do not accept clear.**

Steel is an alloy containing iron.

Complete the word equation for the corrosion of iron.

**Accept iron (III) oxide.**

Izzie uses paper chromatography to separate and identify the dye chemicals in soft drinks. Here is Izzie's chromatogram for one of the soft drinks.

She uses R_f values to identify the dye chemicals.Work out the R_f value of spot A.

$$R_f = \frac{4.2}{5.6} = 0.75$$

R_f = 0.75

