

Question 27**(12 marks)**

Write balanced ionic equations for any reactions between the following substances and state any observations before and after mixing.

If there is no reaction, write 'no reaction' for the equation and if there is no change observed write 'no visible reaction'. Use the colours stated in the Data booklet if required.

- (a) A magnesium strip is added to excess dilute hydrochloric acid solution. (4 marks)

Equation

Observations

- (b) A few drops of bromine liquid are added to a potassium iodide solution. (4 marks)

Equation

Observations

- (c) A piece of aluminium foil is added to a 0.1 mol L⁻¹ nickel(II) nitrate solution. (4 marks)

Equation

Observations