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What forms when a solution of sodium carbonate is added to a solution of gallium(III) nitrate?

A A white precipitate of gallium(III) carbonate.

B A white precipitate of gallium(III) hydroxide.

C A white precipitate of gallium(III) carbonate and bubbles of carbon dioxide.

D A white precipitate of gallium(III) hydroxide and bubbles of carbon dioxide.

(Total 1 mark)

Q2.

Which compound gives a colourless solution when an excess of dilute aqueous ammonia is added?

A MgCl₂

B AgCl

C CuCl₂

D AICI₃

(Total 1 mark)

Q3.

What is the final species produced when an excess of aqueous ammonia is added to aqueous aluminium chloride?

A [Al(NH₃)₆]³⁺

B [Al(OH)₃(H₂O)₃]

C [Al(OH)₄(H₂O)₂]⁻

D [Al(OH)(H₂O)₅]²⁺

(Total 1 mark)