

Edexcel Chemistry IGCSE

2.43C - Acids, Bases and Salt Preparation

Prepare a sample of pure, dry lead(II) sulfate
(chemistry only)

Flashcards

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How can an insoluble salt be prepared from 2 soluble reactants?



How can an insoluble salt be prepared from 2 soluble reactants?

- Mix the reactants with a solvent in a beaker
- Pour the solution through a funnel with filter paper into a beaker, product remains on filter paper
- Rinse the insoluble product with excess solvent and dry



Write the molecular formula of lead(II)
sulfate



Write the molecular formula of lead(II) sulfate



What is the charge of the lead ions in lead(II) sulfate?



What is the charge of the lead ions in lead(II) sulfate?

2+



Name the technique used in the preparation of lead(II) sulfate



Name the technique used in the preparation of lead(II) sulfate

Filtration



Describe a method that could be used to
prepare lead(II) sulfate



Describe a method that could be used to prepare lead(II) sulfate

- Mix lead(II) nitrate, potassium sulfate and water in a beaker using a stirring rod
- Put filter paper in a funnel and place over a beaker
- Pour the solution through the funnel
- Wash the precipitate with water and leave to dry in an oven



When preparing lead(II) sulfate, why should the final product be washed with water?



When preparing lead(II) sulfate, why should the final product be washed with water?

Washing with water ensures that any traces of potassium nitrate solution are removed.

Ensures the pure product is not contaminated.



When preparing lead(II) sulfate, why is it important that the reactants are mixed once combined?



When preparing lead(II) sulfate, why is it important that the reactants are mixed once combined?

To ensure a complete reaction



What is the charge of the sulfate ions in lead(II) sulfate?



What is the charge of the sulfate ions in lead(II) sulfate?

2-



Write the word equation for the formation
of lead(II) sulfate



Write the word equation for the formation of lead(II) sulfate

lead (II) + potassium → lead(II) + potassium
nitrate sulfate sulfate nitrate



Write the chemical equation for the formation of lead(II) sulfate



Write the chemical equation for the formation of lead(II) sulfate



Which of the following are soluble in water: lead(II) nitrate, lead(II) sulfate, potassium nitrate and potassium sulfate?



Which of the following are soluble in water: lead(II) nitrate, lead(II) sulfate, potassium nitrate and potassium sulfate?

Soluble: lead(II) nitrate, potassium sulfate, potassium nitrate

Insoluble: lead(II) sulfate

