

Lab Report: Gravimetric Analysis of an Unknown Sulfate

Experimental Data

Unknown Sulfate ID Code: 20

1. Mass of empty 250-mL beaker	111.244 g
2. Mass of 250-mL beaker and unknown sulfate	112.227 g
3. Mass of unknown sulfate	0.343 g
4. Mass of empty crucible (without lid)	11.203 g
5. Mass of crucible (without lid) and barium sulfate	11.629 g
6. Mass of barium sulfate	0.426 g

Calculations and Conclusions

- Calculate the mass of sulfate in the unknown sample. Clearly show each step of your calculation.

$$\begin{array}{c}
 \text{1 g BaSO}_4 \rightarrow \text{1 mol BaSO}_4 \rightarrow \text{1 mol SO}_4^{2-} \rightarrow \text{1 g SO}_4^{2-} \\
 \text{150.93 g BaSO}_4 + 208.25 g \text{ BaCl}_2 \rightarrow 208.25 g \text{ BaSO}_4 + 208.25 g \text{ SO}_4^{2-} \\
 0.426 \text{ g BaSO}_4 \times \frac{1 \text{ mol BaSO}_4}{233.37 \text{ g BaSO}_4} \times \frac{1 \text{ mol SO}_4^{2-}}{1 \text{ mol BaSO}_4} \times \frac{96.06 \text{ g SO}_4^{2-}}{1 \text{ mol SO}_4^{2-}} = 0.17524 \text{ g SO}_4^{2-} \\
 \hookrightarrow \boxed{0.175 \text{ g SO}_4^{2-}}
 \end{array}$$

- Calculate the percentage by mass of sulfate in the unknown sample. Show your work.
mass of unknown sulfate: 0.343 g ; mass of sulfate: 0.175 g SO₄²⁻

$$\% \text{ SO}_4^{2-} = \frac{0.175 \text{ g}}{0.343 \text{ g}} \times 100 = 51.0204\% \\
 \hookrightarrow \approx 51.0\%$$

- Calculate the percentage by mass of the metal in the unknown sample. Show your work.

$$100.0\% - 51.0\% = 49.0\%$$

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K Morrison



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Quantitative Chemical Analysis Daniel C. Harris, 2010-04-30 QCA is the bestselling textbook of choice for analytical chemistry. It offers a modern portrait of the techniques of chemical analysis backed by a wealth of real world applications. This edition features new coverage of spectroscopy and statistics, new pedagogy and enhanced lecturer support. *Nuclear Science Abstracts*, 1975-08 *Energy Research Abstracts*, 1985 **Scientific and Technical Aerospace Reports**, 1971

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