

Download File PDF Qualitative Analysis Igcse

#Jenny



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Cool! I'am really happy

#Markus Jensen



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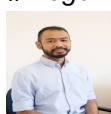
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so many fake sites. this is the first one which worked! Many thanks

HIGH QUALITY TUITION CENTRE MAGOGONI ZANZIBAR.

Example showing how to carry out a systematic qualitative analysis from a give sample of salt.

| EXPERIMENT | OBSERVATION | INFERENCE |
|---|---|---|
| Appearance of the salt S. | Blue crystals with no smell. | Suggest Cu^{2+} , SO_4^{2-} or SO_3^{2-} . |
| Solubility of the salt S in water. | Salt S soluble in cold water and form clear solution. | Suggest Cl^- , NO_3^- , SO_4^{2-} , HCO_3^- or certain SO_3^{2-} . |
| Action of heat on salt S. | Water vapor was given off. The salt changed from blue to white after heating. | Suggest hydrated salt of CuSO_4 . Present. |
| Salt S with dilute Hydrochloric acid. | No gas evolved on cold and warmed dilute HCl but the salt S dissolved and gave clear solution. The solution form white precipitate with Barium Chloride solution. | Suggest SO_4^{2-} Present. |
| Salt S with concentrated sulfuric acid. | No gas evolved in cold and warmed conc. Sulfuric acid but the salt changed its color to white. | Suggest SO_4^{2-} present. |

CONFIRMATORY TEST FOR ANIONS

| EXPERIMENT | OBSERVATION | INFERENCE |
|---|---|-------------------------------------|
| Salt S solution with Barium chloride solution. | White precipitate formed insoluble in excess dilute Hydrochloric acid. | Confirm SO_4^{2-} present. |
| Salt S with Sodium Hydroxide solution. | Pale blue precipitates insoluble in excess alkalis. | Confirm Cu^{2+} present. |
| Salt S solution with Ammonium Hydroxide solution. | Pale blue precipitates soluble in excess Ammonium Hydroxide to form deep blue solution. | Confirm Cu^{2+} present. |

CONFIRMATORY TEST FOR CATIONS

| EXPERIMENT | OBSERVATION | INFERENCE |
|---|----------------------------|-----------------------------------|
| Salt S solution with Potassium ferrioxalate solution. | Brown precipitates formed. | Confirm Cu^{2+} present. |

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