

Chemical Formulae and Equations 4



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Finding Empirical Formula – Experiment 2



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Q: Why the crucible needs to be closed with the lid when the magnesium is heated?

A: To prevent the magnesium oxide (the white smoke) from being released into the surrounding.

Q: Why the lid needs to be open once in a while during the heating?

A: To allow oxygen gas from the air to move into the crucible to react with magnesium.

Observation:

The magnesium tape burn vigorously and produced white smoke. The grey colour magnesium tape turn into white powder after the reaction

Equation: $2Mg + O_2 \rightarrow 2MgO$

Precaution step: The magnesium tape is cleaned with sand paper to remove the layer of magnesium oxide on the surface.