

Lab report

Introduction

In this lab I will be investigating a factor affecting the rate for the reaction between calcium carbonate and hydrochloric acid.

- Word and Chem equation

The rate of a chemical reaction can be measured either by

Factors that affect the rate of a reaction are.....

Explain in terms of collision theory

Aim: (include independent and dependent variables, include units)

Hypothesis: What do you think will happen and why (refer back to intro)

Variables:

- Indep;
- Dep:
- Constants:

Materials: List and draw set up of equipment

Method: Step by step (like a recipe)

- Set up apparatus as shown in diagram
- Measure out 20ml of 1 mol HCl using a 25ml measuring cylinder
-

Results table: (raw data)

Include title

Headers

Units

Processed data

- As you are investigating a rate it is important that you now calculate it and include it in a table ie 40 ml in 5 s = 8ml/s. Include this data in a separate table. You may also want to calculate max and min values

Graph

- Plot graph of independent variable against dependent. Include range bars
- Add best line of fit

Conclusion

- Describe trend in your graph, give values from graph to support.
- State a clear conclusion based on your results
- Comment on validity of conclusion and reliability of data

Errors and Improvements

- State where errors could have occurred in your lab
- State how these errors could be overcome