

Lime Water

Learn how to make lime water and use it to detect carbon dioxide.

Materials

Distilled Water (item #858621)
Calcium Hydroxide (item #861283)
Glass Bottle (item #716292)
Stir Bar
Magnetic Stir Plate (item #701023)
Erlenmeyer Flask, 1,000-mL (item #731031)
Label

Don't want to make it yourself?

Find lime water at Carolina.com

Item Numbers

872441, 872443

Procedure

1. Add an excess of calcium hydroxide to 1 L of distilled water.
2. Cork the container, shake well, and allow it to stand for a 24-hour period. This will allow the precipitate to settle.
3. Filter off the supernatant fluid and keep well stoppered.

Notes

- The lime water should remain clear after the above process is conducted.

Label Information

Lime Water

Caution: Causes severe skin burns
and eye damage

Date Prepared: _____

Initials of Preparer: _____

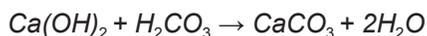
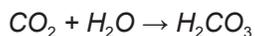
Health Risk: 0

Flammability: 0

Reactivity: 0

Applications

Lime water is used to detect the presence of carbon dioxide, indicated by the presence of a milky calcium carbonate precipitate.



Reference

Brandwein, P. F., and E. Morholt. 1986. *A sourcebook for the biological sciences*, 3rd ed. Orlando, FL: Harcourt Brace Jovanovich, 1986, p. 743.