(Tests for gases (H_2, O_2, CO_2, Cl_2))

Q1. (2022)

Chlorine is also used to treat some ground water.

Describe the test for chlorine gas.

Give the result of the test.

[2 marks]

Test _____

_____

Result _____

_____

Q2. a). (2023)

Carbon dioxide is produced when alcohols are burned.

Carbon dioxide is identified by bubbling the gas through limewater.

Complete the sentence.

Choose the answer from the box.

[1 mark]

calcium chloride	**calcium hydroxide**	**calcium nitrate**	**calcium sulfate**

Limewater is an aqueous solution of _____.

Q2. b). (2023)

Give the result of the test when carbon dioxide is bubbled through limewater.

[1 mark]

Q3. (2024)

Nitric acid is produced by reacting ammonia with oxygen.

The word equation for the production of nitric acid is:

ammonia + oxygen → water + nitric acid

Platinum is a catalyst in this reaction.

Describe the test for oxygen gas.

Give the result if oxygen gas is present.

[2 marks]

Test

Result