

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

Q.1(2020)

Carbon dioxide gas is produced in the reaction between hydrochloric acid and calcium carbonate.

Which test is used to identify carbon dioxide gas?

[1 mark]

Tick (✓) **one** box.

A burning splint pops

☐

A glowing splint relights

☐

Damp litmus paper is bleached

☐

Limewater turns milky

☐

Q2.(2021)

Chlorine gas is used to produce poly(chloroethene).

Describe a test to identify chlorine gas.

Give the result of the test.

[2 marks]

Test _____

Result _____

Q3.(2024)

Chlorine reacts with ethene.

What is used to identify chlorine?

[1 mark]

Tick (✓) **one** box.

A lighted splint

☐

Damp litmus paper

☐

Limewater

☐

Q4.(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 _____
