
Colourless &
odourless gases:

1. H_2

2. O_2

3. CO_2

Gases

types

1. Hydrogen, H_2

4. Chlorine, Cl_2

2. Oxygen, O_2

5. Sulfur dioxide, SO_2

3. Carbon dioxide, CO_2

6. Ammonia, NH_3

testing

1. H_2

- place a burning splint @ mouth of test tube which will extinguish w a pop sound
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2. O_2

- insert a glowing splint into the test tube
↳ wld rekindle (catch fire again)

3. CO_2

- bubble gas thru limewater, white ppt wld form & dissolve upon further heating

4. Cl_2 → yellow-green colour w pungent smell

- place damp blue litmus paper @ mouth of test tube
↳ turn red & is then bleached

5. SO_2 → colourless w pungent smell

- place a piece of filter paper soaked w acidified potassium manganate (VII) @ mouth of test tube
↓
original colour is purple & wld turn colourless

6. NH_3 → colourless w pungent smell

- place a piece of damp red litmus paper @ mouth of test tube
↳ turns blue