

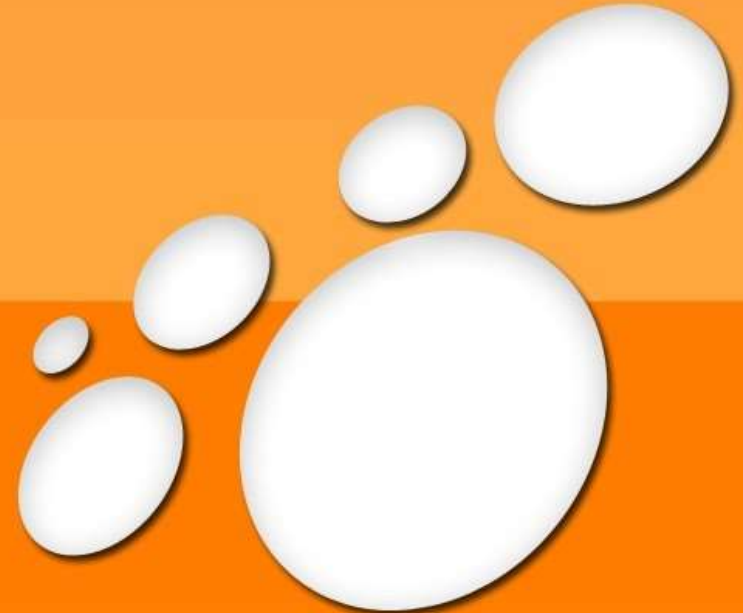


**SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES**

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# INHALANTS



# Oxygen



MOP:

by heating Potassium chlorate



# Physical Properties:

- Colorless gas
- Odourless
- Tasteless
- Soluble in water
- Soluble in alcohol
- Freely soluble in silver solution
- Slightly heavier than air

# Chemical Properties:

1. It react with carbon form carbon dioxide



2. It react with sulphur form sulphur dioxide



# Uses:

1. Prevention & Treatment of hypoxia.
2. Dilatants for anesthetic gases.
3. Treatment of carbon monoxide poisoning.
4. Treatment of severe pulmonary damage.
5. Liquid oxygen used as fuel in rocket technology.

# Storage

“Oxygen is stored and supplied in metal cylinders. The shoulder of cylinder are painted with white color & remaining with black color.”



# Oxygen cylinder



# Carbon Dioxide



**MOP:**

By burning coal with oxygen (in air)





# Physical Properties:

1. Colorless gas
2. Odourless
3. Acidic taste
4. Soluble in water
5. Slightly heavier than air.
6. Aqueous solution is acidic in nature.

# Chemical Properties:

1. When react with water it gives carbonic acid.



2. When react with magnesium it gives magnesium oxide.



# Uses:

1. Respiratory stimulants
2. Treatment of carbon monoxide poisoning.
3. Manufacturing of soft drinks
4. Preparation of dry ice
5. Rarely used in acid base balance.

# Storage

“Carbon dioxide is stored and supplied in metal cylinders. The shoulder of cylinder are painted with Grey color.”



# Nitrous oxide



**MOP:**

By heating ammonium nitrate.



# Physical Properties:

1. Colorless, Odourless, Tasteless gas.
2. Soluble in water.
3. Soluble in ether.
4. Soluble in oils.
5. Soluble in alcohol.
6. Slightly heavier than air.
7. Aqueous solution is neutral in nature.

# Chemical Properties:

1. On heating at high temp. it decomposed and form oxygen.



2. When react with copper it form copper oxide.



# Uses:

1. General anesthetics
2. Muscle relaxant
3. In dental surgery
4. To calm mental patients.



# Storage

“Nitrous oxide is stored and supplied in metal cylinders. The shoulder of cylinder are painted with **Blue** color.”

