

# Carbon Dioxide



**MOP:**

By burning coal with oxygen (in air)

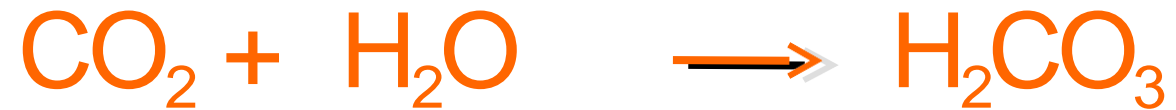


# Physical Properties:

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



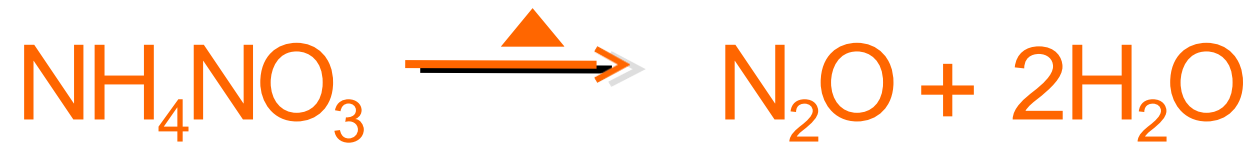
“Carbon dioxide is stored and supplied in metal cylinders. The shoulder of cylinder are painted with Grey color.”

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.”