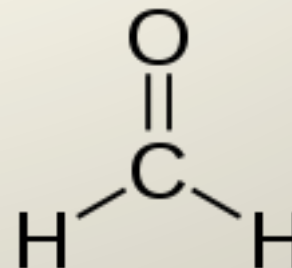


Chemical Safety Data: **FORMALDEHYDE**

Hazard: harmful Hazard: corrosive



Common synonyms: Formalin, paraform, methylene glycol, methyl aldehyde

Formula: **CH<sub>2</sub>O**

Physical properties:

Form: normally supplied as a colourless solution in water, (at a strength of around 37%); becomes cloudy at temperatures lower than 21 C

Stability: Stable

Melting point: depends upon the concentration of the solution; close to 0 C

Boiling point: depends upon the concentration of the solution; a little below 100 C

Specific gravity: around 1.1

## Principal hazards

\*\*\* Formaldehyde presents a range of hazards to health. It is toxic if you swallow or inhale it and is also toxic if absorbed through the skin.

\*\*\* Chronic (long-term) exposure to formaldehyde, particularly through inhalation, is dangerous since there is some possibility that it may act as a carcinogen in humans. Chronic exposure may also damage the kidneys.

\*\*\* Formaldehyde solutions are corrosive and can cause burns to the skin or eyes and damage to the upper respiratory tract.

\*\*\* Susceptible people may develop an allergic reaction to formaldehyde.

## Safe handling

Wear safety glasses. Good ventilation is essential. Do not work in conditions where you are exposed to high levels of vapor for prolonged periods.

## **Emergency**

Eye contact: Immediately flush the eye with water and continue for several minutes. Call for medical help.

Skin contact: Wash off with soap and water. If there are signs of burns or the skin reddens, seek medical help.

If swallowed: Wash out the mouth with water if the person is conscious. Call for medical help.

## **Disposal**

Store in a clearly-labeled container for later disposal as liquid waste. Do not pour into sinks.

## **Protective equipment**

Safety glasses, butyl or nitrile rubber gloves.

## How do we use formaldehyde?

formaldehyde gel electrophoresis for RNA analysis

used in gel and samples

WORK **ALWAYS** in FUME HOOD for GEL and SAMPLE PREPARATION

Safe running buffer as liquid hazardous waster (w/ formaldehyde and EtBr)

EtBr and formaldehyde should both **not** go down the drain!