

# Glutaraldehyde

CAS No.: 111-30-8

Molecular Formula:  $C_5H_8O_2$       Molecular Weight: 100.12

Structure Formula:



## Property:

Density: 1.09-1.124g/cm<sup>3</sup>      Melting Point: -5.8 oC

Boiling Point: 101 oC      Refractive Index: 1.373      Water solubility: miscible

The product is colorless or yellowish clear and bright liquid with slight irritating smell, and can be dissolved in organic dissolvent such as water, ether and ethanol.

In water solution, the product doesn't exist much in free state; instead, it makes appearance as hydrates with different forms. and most of them are hydrates with annular structure.

The product is reactive in property, and liable to polymerize and oxidize, which will react with compounds containing active oxygen and nitrogen. The reaction of the product with protein is mainly carried out between the carbonyl group of the former and the amino group of the latter. Among the known aldehydes, the product is one of the best cross-linking agents for proteins.

The product has a small influence on the activity of enzyme, and most of enzymes can be fixed under controlled condition, to cross-link without losing their activity. Contributing to its outstanding characteristics, the product has drawn special concern from people and been put at broad application.

## Specification:

Items	Index
Appearance	light yellow liquid
Assay, %	25.0min/50.0 min
PH	3.0-5.0
Density, g/cm <sup>3</sup>	1.09-1.124
Color Hazen	70 max

## Usage:

As bactericide, disinfectant, tanning agent, widely used in petroleum development, leather treatment, food, plastics, coatings etc.

## Package and Storage:

Normally In 200L Drum, 1000L IBC Tote, can also be used as required

In room shady and dry place

## Key Words:

[Glutaraldehyde](#), [Alias 1,5-Glutaraldehyde](#), [Pentanedial](#), [Glutaric dialdehyde](#)

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