

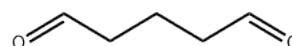
Glutaraldehyde solution, 50%

Product Introduction

Glutaraldehyde is a colorless or slightly yellow clear liquid with a slightly irritating special odor, which is soluble in water and organic solvents such as ether and ethanol. There are not many free forms in aqueous solutions, and a large number of hydrates exist in different forms, while the majority exist in the form of cyclic hydrates, usually in the form of 25-50% hydrate solution. Glutaraldehyde has active properties and is prone to polymerization and oxidation. It reacts with compounds containing active oxygen and nitrogen. The reaction with proteins mainly involves the reaction between carbonyl groups and amino groups in protein molecules. Among known aldehydes, glutaraldehyde is an excellent protein crosslinking agent. Glutaraldehyde has excellent bactericidal properties. Glutaraldehyde has little effect on the activity of this enzyme, and most enzymes can be immobilized, cross-linked, and not inactivated under controlled conditions. Due to its numerous excellent properties, glutaraldehyde has attracted high attention and has been widely used.

Product Information

- CAS NO. 111-30-8
- Product Name: Glutaraldehyde solution, 50%
- Mol. Formula: C₅H₈O₂
- Mol. Weight: 100.117
- Boiling Point: 100.5°C/213°F
- Solubility: Slightly soluble in water
- Specific Gravity (20°C) : 1.125-1.134
- Color (Pt/Co): 50 max
- Methanol %: 1.5 max
- pH Value@25°C: 3.1-4.5
- Appearance: Colorless to light yellow oily transparent liquid
- Packing: 220KGS/DRUM, 100kg/IBC
- Storage: Store at RT. Protect from moisture.



Applications

Glutaraldehyde is recognized as the third milestone in the development history of chemical disinfectants, following formaldehyde and ethylene oxide disinfection. It has the characteristics of low methanol content, no mutagenesis, no accumulation of toxins, and no eutrophication. Glutaraldehyde has a wide range of uses, and it is an excellent protein crosslinking agent with excellent bactericidal properties.

1. This product is widely used as a disinfectant and fungicide in animal husbandry, fisheries, and animal husbandry.
2. Applied in fields such as oil extraction, healthcare, biochemistry, protein crosslinkers, etc.
3. Used as a tanning agent in leather processing.
4. It is also widely used in industries such as instruments, food hygiene, leather processing, plastics, adhesives, fuels, spices, textiles, papermaking, printing, photography, etc.
5. It can also be used to synthesize various organic reagents, produce heterocyclic compounds, etc.

Product List

Product name	Product grade	Methanol %
Glutaraldehyde solution, 50%	Industrial grade	≤ 1
Glutaraldehyde solution, 50%	Medical grade	≤ 0.5



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