



*Specialized in chemicals*

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## Technical Data Sheet

# Glutaraldehyde

### Product Information

Product Name	Glutaraldehyde
Synonyms	Pentanedial;Glutaric dialdehyde
CAS No.	111-30-8
EINECS No.	203-856-5
Molecular formula	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>
Molecular weight	100.12
Chemical structure	



### Physical Properties

Appearance	Colorless to light yellow oily transparent liquid
Density	0.947 g/cm <sup>3</sup>
Melting Point	-5°C
Boiling Point	189°C
Flashing Point	66°C
Solubility in water	miscible
Refractive index	1.373
Vapour pressure	0.583mmHg at 25°C
Solubility	Easily soluble in cold water. Soluble in diethyl ether. Soluble in benzene, ethanol and other organic solvents.

### Specification

### 1)25% Industrial Grade

<u>Items</u>	<u>Specification</u>
Appearance	Colorless oily transparent liquid
Assay	≥25%
PH Value	3.0 ~ 5.0
Color	≤100
Specific Gravity	1.08 ~ 1.126

### 2) 50% Industrial Grade

<u>Items</u>	<u>Specification</u>
Appearance	Light yellow oily transparent liquid
Assay	≥50%
PH Value	3.0 ~ 5.0
Color	≤80
Methanol	≤5.0%

## Safety

DOT Classification: CLASS 8: Poisonous material.

Identification: : Toxic Liquid, Organic, n.o.s (Glutaraldehyde solution) UN 2922 8 /PG 2

Special Provisions for Transport: Not available.

Always refer to the Material Safety Data Sheet (MSDS)

## Applications

- 1) Glutaraldehyde is used for industrial water treatment and as a preservative.
- 2) Glutaraldehyde is mainly available as an aqueous solution, and in these solutions the aldehyde groups are hydrated.
- 3) Glutaraldehyde is used for organic synthesis and can be used for polymerization and copolymerization of polyvinyl ether production, used in coatings, additives, plasticizer, etc.

## Packaging

- 1) 220kg per drum, packed in blue plastic drum;  
Total 17.6 MT per 20ft container on pallets or without pallets
- 2) 1100kg per IBC drum;  
Total 19.8 MT per 20ft container without pallets

## Storage & Handling

Keep away from the oxidant. Store in a cool, dry place. Keep containers tightly closed.  
Or argon filling seal to avoid light preservation under 0 °C.

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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