

## AquaGuard® 960 GLUTARALDEHYDE

CAS NO.: 111-30-8

Structural Formula

Molecular Formula: C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>



### Physico-Chemical Properties:

Appearance	Clear Colorless to yellowish liquid.
Solid Content	48.0-52.0% by weight
Methanol	5.00% Max.
Specific Gravity@ 20°C	1.10 - 1.133
pH @ 25°C	3.0- 5.0
Boiling Point	100.5°C
Melting Point	-21 °C
Vapor Density (Air=1)	3.4 (pure glutaric dialdehyde)

### General Information

The product is colorless or yellowish clear and bright liquid with slight irritating smell, and can be dissolved in organic solvent 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.

### Safety Protection

Acidity, Avoid contact with eye and skin, once contacted, flush with water.