

Glutaraldehyde solution

Chemical Properties

CAS No. : 111-30-8

Formula: C₅H₈O₂

Molecular Weight: 100.12

Appearance:

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description

Glutaraldehyde solution, 50% in H₂O, is a solution consisting of 50% glutaraldehyde in water, often employed for cell fixation in staining experiments. Glutaraldehyde forms covalent bonds with nucleophilic groups such as amino and thiol groups in proteins, leading to irreversible cross-linking of intracellular proteins and effectively fixing cells. It stabilizes cell morphology and structure, facilitating subsequent observation and research. Additionally, glutaraldehyde solution can serve as a sterilizing agent, food processing aid, disinfectant, tanning agent, and wood preservative.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.988 mL	49.9401 mL	99.8801 mL
5 mM	1.9976 mL	9.988 mL	19.976 mL
10 mM	0.9988 mL	4.994 mL	9.988 mL
50 mM	0.1998 mL	0.9988 mL	1.9976 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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