

> Glycerol 100% Solution

<i>cat. no.</i>	<i>amount</i>	<i>note</i>
STS-GL 1000	1L	liquid
STS-GL 5000	5L	liquid

Glycerol is a colorless, odorless, viscous organic compound. Glycerol is used both in sample preparation and gel formation for polyacrylamide gel electrophoresis. Glycerol (5-10%) increases the density of a sample so that the sample will layer at the bottom of a gel's sample well. Glycerol is also used to aid in casting gradient gels and as a protein stabilizer and storage buffer component. Like ethylene glycol and propylene glycol, glycerol dissolved in water disrupts the hydrogen bonding between water molecules such that the mixture cannot form a stable crystal structure unless the temperature is significantly lowered. The minimum freezing point temperature is at about -36 °F / -37.8 °C corresponding to 60-70 % glycerol in water. Thus, glycerol has anti-freeze properties.

Formulation

$C_3H_8O_3$

Molecular Weight

92,1

Purity >99.5%

Density 1,26 g/ml

Solubility

Glycerol is soluble in water and hygroscopic.

Storage

Store at room temperature.

FOR RESEARCH USE ONLY