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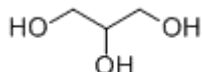
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## Technical Data Sheet

# Glycerine

### Product Information

Product Name	Glycerine
Synonyms	Glycerol; 1,2,3-propanetriol; 1,2,3-trihydroxypropane;
CAS No.	56-81-5
EINECS No.	200-289-5
Molecular formula	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>
Molecular weight	92.09
Chemical structure	



### Physical Properties

Colorless, odorless and viscous liquid has a sweet taste.

Unlimited miscible with water, hardly soluble in benzene, chloroform, carbon tetrachloride, carbon disulfide, petroleum ether and oil.

Density	1.261 g/mL
Melting Point	20°C
Boiling Point	290°C
Flashing point	176°C
Refractive Index	n <sub>20</sub> /D 1.474
Water solubility	>500 g/L (20°C)

## Specification

### 1) Enterprise Standard

Index name	Grade A	Grade B	Grade C
Content,%	≥99.5	≥98.0	≥95.0
Color,hazen	≤20	≤30	≤70
Saponification equivalent (mmol/100g)	≤1.0	≤1.0	≤1.0
Acidity, mmol/100g	≤0.1	≤0.1	≤0.1

### 2) USP 38 Standard

Assay, 99.0~101.0%  
Water Content, ≤5.0%  
Residue on Ignition, ≤0.01%  
Chlorides , ≤10ppm  
Sulphates , ≤20ppm  
Heavy Metals (as Pb), ≤5ppm  
Limit of Chlorinated Compounds, ≤30ppm  
Color (APHA), ≤10  
Arsenic, ≤1.5ppm

## Safety

Glycerine is a stable material, not dangerous on transportation  
Always refer to the Material Safety Data Sheet (MSDS)

## Applications

- 1) Glycerine is used for manufacturing nitroglycerin, alkyd resin and epoxy resin.
- 2) In medicine, it is used for the preparation of various formulations, solvents, hygroscopic agent, antifreeze and sweeteners, formulations of topical ointment or suppository.
- 3) In the coatings industry for making all kinds of alkyd resin and polyester resin, epoxy resin and glycidyl ether.
- 4) In textile and printing and dyeing industry for making lubricant, hygroscopic agent, fabric anti-creasing treatment agent, dispersant and penetrating agent.
- 5) In the food industry, used as sweetener, tobacco agent of hygroscopic agent and solvent.
- 6) It is used as automobile and aircraft fuel and oil field of antifreeze.
- 7) Used as a plasticizer in new type of ceramic industry.
- 8) Used for textile and printing and dyeing industry.
- 9) In papermaking, cosmetic, leather, photography, printing, metal processing, electrical material, and rubber industries also have a wide range of uses.

## **Packaging**

250kg per plastic drum;  
Total 20MT per 20ft container with pallets (without pallets)

## **Storage & Handling**

Store in a cool, well-ventilated area. Keep container tightly closed. Hygroscopic.  
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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