



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 5418695

Fax: (0086) 551 5418697

Email: info@tnjchem.com

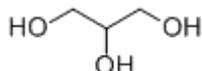
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Technical Data Sheet

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 ₃ H ₈ O ₃
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 ₂₀ /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.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.

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Qianshan Road, Hefei
230022 Anhui
China

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