

PRODUCT IDENTIFICATION



Product Name: Glycerin 50% Food Grade

CAS Number: 56-81-5

Molecular Formula: $C_3H_8O_3$

Molecular Weight: 92.09 g/mol

Grade: Food Grade

Purity / Concentration: 50%

Synonyms: Not Available

PRODUCT OVERVIEW

Glycerin 50% Food Grade is a clear, colorless liquid offering a balanced concentration for various industrial and laboratory applications. With a specific gravity of 1.126, this reliable chemical serves as a versatile humectant and solvent for your formulation needs.

Grade Significance: Food Grade designation ensures that the product has been manufactured and handled according to strict safety standards, making it suitable for applications where incidental contact or ingestion is a concern.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless, moderately viscous liquid	Form	Liquid
Boiling Point	290°C (554°F)	Melting / Freezing Point	18°C (64°F)
Flash Point	177°C (351°F)	Specific Gravity	1.126
Solubility	Fully miscible with water	Molecular Formula	$C_3H_8O_3$
Molecular Weight	92.09 g/mol		

APPLICATIONS

- Food Processing** — Used as a food-safe humectant to retain moisture in baked goods and confectionery items.
- Pharmaceuticals** — Acts as a solvent or carrier for liquid medicinal preparations requiring high purity standards.
- Cosmetics** — Utilized in lotions and soaps for its skin-conditioning properties and ability to maintain product stability.
- Laboratory Research** — Serves as a stable, non-toxic reagent for various bench-top experiments and analytical procedures.
- Manufacturing** — Employed as a lubricant or plasticizer in specialized production processes requiring food-grade materials.

STORAGE & HANDLING

Proper storage in a cool, dry, and well-ventilated area is essential to maintain the concentration and purity of the glycerin. While it is not classified as a hazardous material, keeping the container tightly sealed prevents contamination and moisture absorption from the environment.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Warning**

No GHS pictograms assigned.

Hazard Statements:

- Not Classified
- Reported as not meeting GHS hazard criteria by 5522 of 5617 companies (only 1.7% companies provided GHS information). For more detailed information, please visit ECHA C&L website.

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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