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Saisir le nom du produit, le numéro de lot, etc.

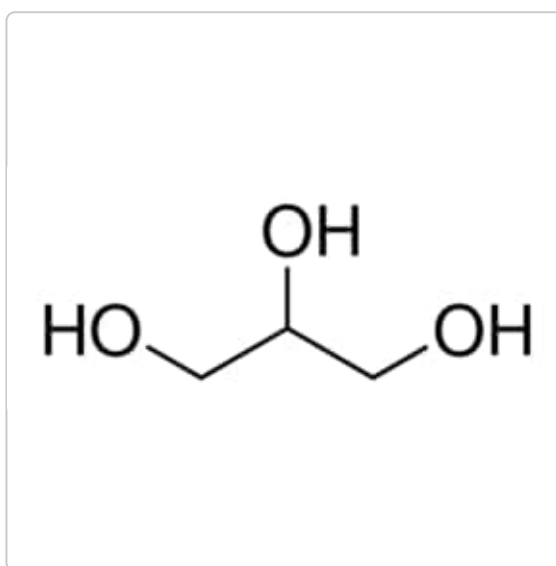


G5516 ▶ **Sigma-Aldrich**

Glycerol

★★★★★ 5.0 (1)

for molecular biology, ≥99.0%



[Toutes les photos](#) (2)

Synonyme(s):

1,2,3-Propanetriol, Glycerin

Formule linéaire:

HOCH₂CH(OH)CH₂OH

Numéro CAS:

56-81-5

Poids moléculaire:

92.09

Beilstein:

635685

Numéro EC:

200-289-5

Numéro MDL:

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NACRES:

NA.31

Select an Option

Référence

G5516-100ML



100 ML

66,60 €



Disponible pour expédition le 10 octobre 2022 - [De](#)

—

1

+

Ajouter au panier

[Demander une commande en gros](#)

Documents

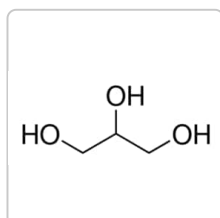
[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

[Plus de documents >>](#)

PRODUITS RECOMMANDÉS



Sigma-Aldrich

G9012

Glycerol

≥99.5%

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PROPRIÉTÉS

Qualité

for molecular biology
reagent

Niveau de qualité

200

Densité de vapeur

3.1 (vs air)

Pression de vapeur

<1 mmHg (20 °C)

Essai/Dosage

≥99.0%

Forme

liquid

Température d'inflammation spontanée

698 °F

technique(s)

MALDI-MS: suitable

Indice de réfraction

$n_{20/D}$ 1.474 (lit.)

pH

5.5-8

Point de bulle

182 °C/20 mmHg (lit.)

Pf

20 °C (lit.)

Densité

1.25 g/mL (lit.)

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heavy metals (as Pb): <5 ppm

Activité étrangère

DNase, RNase, NICKase, and protease, none detected

SMILES string

OCC(O)CO

InChI

1S/C3H8O3/c4-1-3(6)2-5/h3-6H,1-2H2

InChI key

PEDCQBHIVMGVHV-UHFFFAOYSA-N

Vous recherchez des produits similaires ? Visit [Guide de comparaison des produits](#)

DESCRIPTION

Description générale

Glycerol is odourless, colorless, viscous in nature, and exists as a sweet tasting liquid. It can be derived naturally as well as from petrochemical feedstock. Glycerol has a wide variety of applications, and is one of the most valuable and versatile chemical substances in nature. It can be used as an emollient, solvent, sweetening agent, in pharmaceutical formulations, cosmetics, foodstuffs and toiletries. It is very stable and can be easily stored under normal temperature; also it is non-irritating and has no adverse impact to the environment.

Application

Glycerol has been used as:

- A supplement during cell culture of *Mycobacterium tuberculosis* and *Mycobacterium avium*.
- A fuel during designing enzymatic biofuel cell.
- A liquid composite matrix with 4-HCCA and 3-aminoquinoline for analysis of neutral and acidic glycans.
- A matrix for fast atom bombardment MS.
- May be employed as liquid matrix for the quantification studies by MALDI (Matrix-assisted laser desorption/ionization mass spectrometry) analysis.

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buffer component.

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.

Conditionnement

100, 500 mL in poly bottle

1, 4 L in poly bottle

Actions biochimiques/physiologiques

Glycerol is hygroscopic in nature and is soluble in water owing to its three hydrophilic alcoholic hydroxyl groups. It can form both inter- and intramolecular hydrogen bonds, making it a very flexible molecule. The physiologic effect of glycerine is due to cell-mediated immunity, increased IgG production and increased histamine release.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

10 - Combustible liquids

WGK

WGK 1

Flash Point(F)

390.2 °F - Pensky-Martens closed cup

Point d'éclair C

199 °C - Pensky-Martens closed cup

Équipement de protection individuelle

Eyeshields, Gloves

DOCUMENTATION

Certificat d'analyse

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e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

[FT-NMR Spectra](#)

[Pressure-Temperature Nomograph](#)

[Spectra - ATR-IR](#)

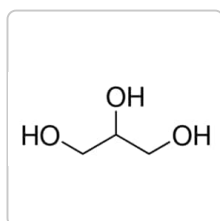
[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

G7757

Glycerol

ReagentPlus®, ≥99.0% (GC)

Consulter le prix et la disponibilité

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QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

What is the viscosity of glycerol?

The viscosity of glycerol is 648 Centistokes at 20 Deg C (68 Deg F).

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Gellan gum incorporating titanium dioxide nanoparticles biofilm as wound dressing: Physicochemical, mechanical, antibacterial properties and wound healing studies.

Nur Arifah Ismail et al.

Materials science & engineering. C, Materials for biological applications, 103, 109770-109770 (2019-07-28)

In this work, the potential of titanium dioxide nanoparticles incorporated gellan gum (GG+ TiO₂-NPs) biofilm as wound dressing material was investigated. The GG+ TiO₂-NPs biofilm was prepared via evaporative casting technique and was characterized using FTIR, XRD, and SEM to study their

Microplate alamar blue assay versus BACTEC 460 system for high-throughput screening of compounds against Mycobacterium tuberculosis and Mycobacterium avium

Collins, L., and Scott G. Franzblau

Antimicrobial Agents and Chemotherapy, 41 (5), 1004-1009 (1997)

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The Future of Glycerol

Mario Pagliaro, Michele Rossi

Royal Society of Chemistry, 170-170 (2010)

Analysis of native milk oligosaccharides directly from thin-layer chromatography plates by matrix-assisted laser desorption/ionization orthogonal-time-of-flight mass spectrometry with a glycerol matrix

Dreisewerd, Klaus, et al

Journal of the American Society For Mass Spectrometry, 17(2), 139-150 (2006)

[Afficher tous les articles scientifiques apparentés](#)

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Introduction to Yeast Media

Technical Article on yeast media. Yeasts are eukaryotic microorganisms whose genomes have been comprehensively studied and some have been sequenced.

Protocoles

Calcium Phosphate Transfection Kit Protocol

Calcium phosphate transfection is a common method for the introduction of DNA into eukaryotic cells. This protocol can be optimized for use with a wide variety of cell types.

Yeast Growth Protocols

Yeasts are considered model systems for eukaryotic studies as they exhibit fast growth and have dispersed cells. Yeast cultures can be grown, maintained, and stored in liquid media or on agar plates using techniques similar to...

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G5510

Glycogen azure

from rabbit liver, suitable for substrate for α -amylase

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Évaluations

Rédiger une évaluation

Description sommaire de la notation

Sélectionnez une ligne ci-dessous pour filtrer les avis.

5 ★	1
4 ★	0
3 ★	0
2 ★	0
1 ★	0

Notes moyennes des clients

Générale ★★★★★ 5.0

1 AVIS AVEC NOTES UNIQUEMENT

★★★★★ 5.0 | 1 avis

Rechercher des questions et des répc	🔍	1 avis	0 questions	0 réponses
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Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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