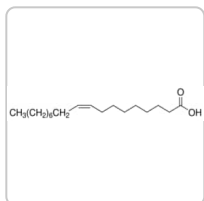


Saisir le nom du produit, le numéro de lot, etc.

[Toutes les photos \(1\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**O1008** ▶ **Sigma-Aldrich.**

Oleic acid

★★★★★ (0)

≥99% (GC)

Synonyme(s):

cis-9-Octadecenoic acid, Elainic acid

Formule linéaire:

 $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$ Numéro CAS: **112-80-1**

Beilstein: 1726542

Numéro MDL: **MFCD00064242**

NACRES: NA.25

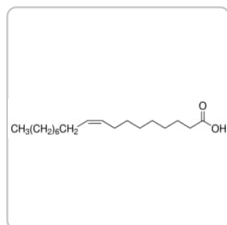
Poids moléculaire: 282.46

Numéro EC: **204-007-1**ID de substance PubChem: **24278605**

Référence	Conditionnement	Disponibilité	Prix	Quantité
O1008-1G	1 G	✓ Date d'expédition estimée le 10 octobre 2022 Détails...	42,40 €	− + i
O1008-5G	5 G	✓ Date d'expédition estimée le 10 octobre 2022 Détails...	125,00 €	− + i
O1008-25G	25 G	✓ Only 1 left in stock (more on the way) Détails...	482,00 €	− + i

[Demander une commande en gros](#)[Ajouter au panier](#)

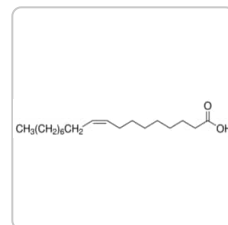
PRODUITS RECOMMANDÉS



Sigma-Aldrich

364525**Oleic acid**

technical grade, 90%

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

O1383**Oleic acid**

suitable for cell culture, BioReagent

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Pression de vapeur 1 mmHg (176 °C)

Niveau de qualité 200

Essai/Dosage $\geq 99\%$ (GC)

Forme viscous liquid

Indice de réfraction $n_{20/D}$ 1.459 (lit.)

Point de bulle 194-195 °C/1.2 mmHg (lit.)

Pf	13-14 °C (lit.)
Solubilité	H ₂ O: insoluble (practically) alcohol: soluble benzene: soluble chloroform: soluble oil: soluble (fixed and volatile)
Densité	0.89 g/mL at 25 °C (lit.)
Groupe fonctionnel	oleic acid
Expédié(e)s dans	ambient
Temp. de stockage	-20°C
SMILES string	<chem>CCCCCCCC\C=C/CCCCCCCC(O)=O</chem>
InChI	1S/C18H34O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(19)20/h9-10H,2-8,11-17H2,1H3, (H,19,20)/b10-9-
InChI key	ZQPPMHVWECSIRJ-KTKRTIGZSA-N
Gene Information	human ... PRKCA(5578) , PRKCB(5579) , PRKCD(5580) , PRKCE(5581) , PRKCG(5582) , PRKCH(5583) , PRKCI(5584) , SOAT1(6646) , SOAT2(8435)

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

Catégories apparentées

Lipids for Therapeutics and Research

DESCRIPTION

Description générale

Oleic acid (OA) is a fatty acid. Its quantitative removal from the mixtures of triglyceride and partial glycerides has been reported. OA is widely used as surfactant for the stabilization of magnetic nanoparticles. Monodisperse magnetite nanoparticles (7 and 19nm) coated with OA have been prepared.

Application

Oleic acid may be used in the preparation of 10-hydroxyoctadecanoic acid and methyl ester of the 10-hydroxyoctadecanoic acid.

Conditionnement

1, 5, 25 g in ampule

Actions biochimiques/physiologiques

Activates protein kinase C in hepatocytes.

Uncouples oxidative phosphorylation. Inhibits 2,4-dinitrophenol-stimulated ATPase. Action reversed by adding serum albumin.

PRODUITS APPARENTÉS

Produit Apparenté

06693

Teststrip Plus™ -20 °C

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

10 - Combustible liquids

WGK

WGK 1

Équipement de protection individuelle

Eyeshields, Gloves, type ABEK (EN14387) respirator filter

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

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

Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

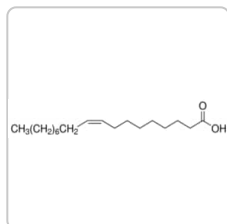
[Pressure-Temperature Nomograph](#)

[Spectra - ATR-IR](#)

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



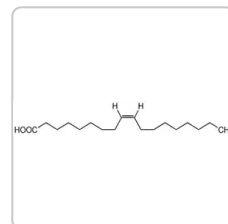
Sigma-Aldrich

27728

Oleic acid

meets analytical specification of Ph, Eur., 65.0-88.0% (GC)

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

4954

Oleic Acid - CAS 112-80-1 - Calbiochem

[Consulter le prix et la disponibilité](#)

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.

You describe Product O1008, Oleic acid, as a liquid in your Specification Sheet, but you do not give its concentration.

Oleic acid is a liquid at room temperature. Its molarity, calculated from its density and molecular weight (0.89 g/mL at 25 degrees C and 282.46 g/mol, respectively) is approximately 3.15 mol/L.

In what solvents can Product O1008, Oleic acid, be dissolved or diluted?

Per the chemicals encyclopedia published by the Royal Society of Chemistry, 12th ed., Entry# 6965, oleic acid is soluble in alcohol, benzene, chloroform, ether, fixed and volatile oils, but is practically insoluble in water.

How can one determine whether Product O1008, Oleic acid, has undergone oxidation?

Sigma's oleic acid is a clear, colorless to very faint yellow viscous liquid. It is sensitive to air and light. When it becomes oxidized, it acquires a much darker yellow to brown color.

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.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

THE STEREOSPECIFIC CONVERSION OF STEARIC ACID TO OLEIC ACID.

G J SCHROEPFER et al.

The Journal of biological chemistry, 240, 54-63 (1965-01-01)

Oleic acid coating on the monodisperse magnetite nanoparticles.

Zhang L, et al.

Applied Surface Science, 253(5), 2611-2617 (2006)

Simple liquid-liquid partition system for isolation of labeled oleic acid from mixtures with glycerides.

P Belfrage et al.

Journal of lipid research, 10(3), 341-344 (1969-05-01)

Oleic acid has a partition coefficient, upper phase/lower phase, of 1.9 (22 degrees C) in the liquid-liquid partition system described herein. Tri-, di-, and monoolein are found almost exclusively in the lower (organic) phase. Oleic acid can be quantitatively removed

Palladium Nanoparticles Encapsulated in Hollow Titanosilicate Spheres as an Ideal Nanoreactor for One-pot Oxidation.

Yasutaka Kuwahara et al.

Chemistry (Weinheim an der Bergstrasse, Germany), 23(2), 380-389 (2016-11-26)

One-pot reaction involving Pd-catalyzed H

Treatment of rat spinal cord injury with the neurotrophic factor albumin-oleic acid: translational application for paralysis, spasticity and pain.

Gerardo Avila-Martin et al.

PloS one, 6(10), e26107-e26107 (2011-11-03)

Sensorimotor dysfunction following incomplete spinal cord injury (iSCI) is often characterized by the debilitating symptoms of paralysis, spasticity and pain, which require treatment with novel pleiotropic pharmacological agents. Previous in vitro studies suggest that Albumin (Alb) and Oleic Acid (OA)

[Afficher tous les articles scientifiques apparentés](#)

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Stearic Acid in Cell Culture

Fatty acids of the n-3, n-6 and n-9 families are important supplements for cell culture systems. They are important in cell culture systems used to biomanufacture heterologous proteins, such as monoclonal antibodies.

Oleic Acid in Cell Culture

How the unsaturated fatty acid, oleic acid and other cell culture components affect the performance of serum-free, protein-free cell culture systems used for biomanufacturing heterologous proteins including monoclonal antibodies.

Chemical Synthesis of Monodisperse Magnetic Nanoparticles

Magnetic nanoparticles have attracted tremendous attention due to their novel properties and their potential applications in magnetic recording, magnetic energy storage and biomedicine.

Contenu apparenté

DISCOVER Bioactive Small Molecules for Neuroscience

DISCOVER Bioactive Small Molecules for Neuroscience

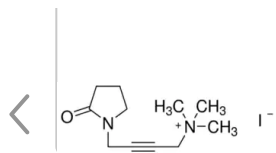
PRODUITS CONSULTÉS RÉCEMMENT



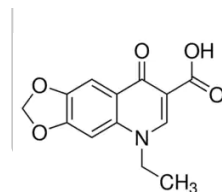
Sigma-Aldrich



Sigma-Aldrich

**O100****Oxotremorine M**

solid

[Consulter le prix et la disponibilité](#)**O0877****Oxolinic acid**

quinolone antibiotic

[Consulter le prix et la disponibilité](#)

Évaluations

★★★★★

[Soyez le premier à donner votre avis sur ce produit](#)

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..

[Contacter notre Service technique](#)