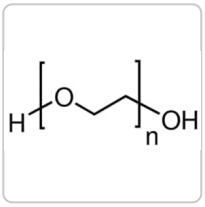


Toutes les photos (1)

Documents

FDS

COO/COA

Fiche des caractéristiques

Plus de documents

95172 Sigma-Aldrich

Poly(ethylene glycol)

(0)

BioUltra, 20,000

Synonyme(s):
PEG

Formule linéaire:
$H(OCH_2CH_2)_nOH$

Numéro CAS: 25322-68-3

Numéro MDL: MFCD00081839

ID de substance PubChem: 24890102

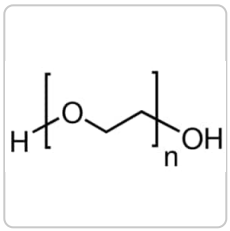
NACRES: NA.26

Référence	Conditionnement	Disponibilité	Prix	Quantité
95172-250G-F	250 G	Disponible pour expédition le 03 octobre 2022 Détails...	35,60 €	− +

Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS



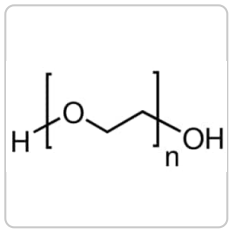
Sigma-Aldrich

81300

Poly(ethylene glycol)

average M_n 20,000

Consulter le prix et la disponibilité



Sigma-Aldrich

8.18897

Polyethylene glycol 20000

(stabilised) for synthesis

Consulter le prix et la disponibilité

PROPRIÉTÉS

Niveau de qualité	200
Gamme de produits	BioUltra
Forme	flakes
Poids mol.	M_r ~16000-24000
Impuretés	insoluble matter:, passes filter test ≤0.001% peroxides (as H_2O_2):
pH	5.5-7.0 (25 °C, 50 mg/mL in H_2O)
Pf	63-66 °C
Solubilité	H_2O: 50 mg/mL at 25 °C, clear, colorless
Traces d'anions	chloride (Cl^-): ≤50 mg/kg

Traces d'anions	sulfate (SO_4^{2-}): ≤50 mg/kg
Traces de cations	Al: ≤5 mg/kg As: ≤0.1 mg/kg Ba: ≤5 mg/kg Bi: ≤5 mg/kg Ca: ≤10 mg/kg Cd: ≤5 mg/kg Co: ≤5 mg/kg Cr: ≤5 mg/kg Cu: ≤5 mg/kg Fe: ≤5 mg/kg K: ≤200 mg/kg Li: ≤5 mg/kg Mg: ≤5 mg/kg Mn: ≤5 mg/kg Mo: ≤5 mg/kg Na: ≤200 mg/kg Ni: ≤5 mg/kg Pb: ≤5 mg/kg Sr: ≤5 mg/kg Zn: ≤5 mg/kg
λ	50 mg/mL in H_2O
Absorption UV	λ: 260 nm A_{max}: 0.15 λ: 280 nm A_{max}: 0.20
SMILES string	C(CO)O
InChI	1S/C2H6O2/c3-1-2-4/h3-4H,1-2H2

InChI key	LYCAIKOWRPUZTN-UHFFFAOYSA-N

Vous recherchez des produits similaires ? Visit **Guide de comparaison des produits**

Catégories apparentées

Detergents - Anionic, Cationic, Zwitterionic, Anti-foaming

DESCRIPTION

Description générale

Polyethylene glycol (PEG) is a polyether compound that is used as an additive in cosmetics, pharmaceuticals, and food. It consists of repeated ethylene glycol units[-($CH_2CH_2O)_n$].

Application

Poly(ethylene glycol) has been used as a non-absorbing polymer in aqueous dispersion or active gel assembly to stimulate the formation of filament bundles through depletion interaction.

Actions biochimiques/physiologiques

Polyethylene glycol (PEG) is a synthetic polymer that is used as a gold standard in bioconjugation and nanomedicine to extend blood circulation time and enhance drug efficacy. PEG-conjugated drugs are considered safe for use in humans and are approved by the U.S. Food and Drug Administration (FDA). PEG has several biomedical applications, including biosensing, imaging, and tissue engineering. It also repels protein adsorption and lowers the liver uptake, which helps in coating nanoparticles.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage
13 - Non Combustible Solids

WGK
WGK 1

Flash Point(F)
Not applicable

Point d'éclair C
Not applicable

Équipement de protection individuelle
Eyeshields, Gloves, type N95 (US)

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

e.g. 023J5431

Comment saisir un numéro de lot (COO)

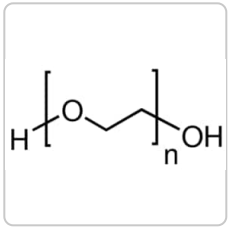
Rechercher

Plus De Documents

Structure Search

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



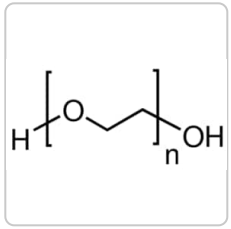
Sigma-Aldrich

03557

Poly(ethylene glycol)

tested according to Ph. Eur., 35,000

Consulter le prix et la disponibilité



Sigma-Aldrich

8.18892

Polyethylene glycol 35000

(stabilised with 2-tert-butyl-4-methoxyphenol) for synthesis

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

Direct Comparison of Poly(ethylene glycol) and Phosphorylcholine Drug-Loaded Nanoparticles In Vitro and In Vivo.

Janina-Miriam Noy et al.
Biomacromolecules, 21(6), 2320-2333 (2020-04-29)

Phosphorylcholine is known to repel the absorption of proteins onto surfaces, which can prevent the formation of a protein corona on the surface of nanoparticles. This can influence the fate of nanoparticles used for drug delivery. This material could therefore

Polyethylene glycol (PEG): a versatile polymer for pharmaceutical applications.

Anisha A D'souza et al.
Expert opinion on drug delivery, 13(9), 1257-1275 (2016-04-28)

Polyethylene glycol (PEG) is a polymer of choice in drug delivery systems. This USFDA-approved polymer is popular due to its tunable properties and well-established safety profile: prime requisites considered during the selection of any excipient in formulation development. The unique

The Importance of Poly(ethylene glycol) Alternatives for Overcoming PEG Immunogenicity in Drug Delivery and Bioconjugation.

Thai Thanh Hoang Thi et al.
Polymers, 12(2) (2020-02-07)

Poly(ethylene glycol) (PEG) is widely used as a gold standard in bioconjugation and nanomedicine to prolong blood circulation time and improve drug efficacy. The conjugation of PEG to proteins, peptides, oligonucleotides (DNA, small interfering RNA (siRNA), microRNA (miRNA)) and nanoparticles

Polyethylene glycol as a cause of anaphylaxis.

Katharina Wylon et al.
Allergy, asthma, and clinical immunology : official journal of the Canadian Society of Allergy and Clinical Immunology, 12, 67-67 (2016-12-22)

Polyethylene glycols (PEGs) or macrogols are polyether compounds and are widely used as additives in pharmaceuticals, cosmetics, and food. We report on a Caucasian patient experiencing recurrent severe allergic reactions to several drugs. An extensive diagnostic workup including skin prick

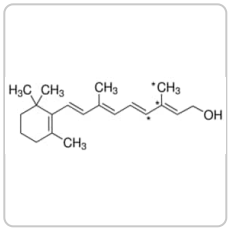
Taming active turbulence with patterned soft interfaces.

P Guillamat et al.
Nature communications, 8(1), 564-564 (2017-09-17)

Active matter embraces systems that self-organize at different length and time scales, often exhibiting turbulent flows apparently deprived of spatiotemporal coherence. Here, we use a layer of a tubulin-based active gel to demonstrate that the geometry of active flows is

Afficher tous les articles scientifiques apparentés

PRODUITS CONSULTÉS RÉCEMMENT



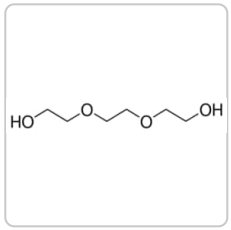
Sigma-Aldrich

95144

Retinol

BioXtra, ≥97.5% (HPLC), ~3100 U/mg

Consulter le prix et la disponibilité



Sigma-Aldrich

95126

Triethylene glycol

BioUltra, anhydrous, ≥99.0% (GC)

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..

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