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Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**364258** ▶ **Sigma-Aldrich.**

3-Aminopropyl-functionalized silica gel

★★★★★ (0)

40-63 µm, extent of labeling: ~1 mmol/g NH₂ loadingNuméro MDL: **MFC00132846**ID de substance PubChem: **24862420**

NACRES: NA.22

Référence	Conditionnement	Disponibilité	Prix	Quantité
364258-10G	10 G	✓ Disponible pour expédition le 04 octobre 2022 Détails...	92,20 €	— +
364258-50G	50 G	✓ Disponible pour expédition le 04 octobre 2022 Détails...	304,00 €	— +
364258-250G	250 G	✓ Date d'expédition estimée le 07 novembre 2022	1 180,00 €	— +

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PROPRIÉTÉS

Forme	powder
Niveau de qualité	200
Étendue du marquage	~1 mmol/g NH ₂ loading ~9% functionalized
Matrice	irregular silica particle platform
Groupe de la matrice active	NH ₂ phase
Taille des particules	40-63 µm
Dimension de pores	60 Å pore size
Superficie	550 m ² /g
SMILES string	O[SiH3].CCCN

DESCRIPTION

Description générale

The product is silica gel functionalized with amino groups. The product (3-Aminopropyl-functionalized silica gel) is 9% functionalized and has 1mmol/g of NH₂ loading (extent of labelling). It participates as catalyst in the Knoevenagel condensation

reactions.

Application

3-Aminopropyl-functionalized silica gel may be used in the following studies:

- For the separation of polychlorinated biphenyls (PCBs) from lipids by combined supercritical fluid extraction and separation.
- Preparation of the tin complex immobilized on silica gel, a novel, green, highly efficient and heterogeneous reusable catalyst.
- Preparation of silica gel bearing isonicotinamide groups.
- Synthesis of a novel catalytic system including Pd(OAc)₂ attached to a bis(oxazoline) ligand that is covalently bonded to 3-mercaptopropyl-functionalized silica gel.
- Useful as a heterogeneous, reusable catalyst for the Knoevenagel condensation.
- For low- and medium-pressure reversed-phase liquid chromatography.

Conditionnement

10, 50, 250 g in glass bottle

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07

Mention d'avertissement

Warning

Mentions de danger

H315 - H319 - H335

Conseils de prudence

P261 - P264 - P271 - P280 -
P302 + P352 - P305 + P351 +
P338

Classification des risques

Eye Irrit. 2 - Skin Irrit. 2 -
STOT SE 3

Organes cibles

Respiratory system

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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

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ARTICLES REVUS PAR DES PAIRS

Journal of the Chemical Society. Perkin Transactions 1, 105-105 (1989)

Amino groups immobilized on silica gel: an efficient and reusable heterogeneous catalyst for the Knoevenagel condensation.

Angeletti E, et al.

Journal of the Chemical Society. Perkin Transactions 1, 1, 105-107 (1989)

Synthesis, catalytic activity, and leaching studies of a heterogeneous Pd-catalyst including an immobilized bis(oxazoline) ligand.

H Gruber-Woelfler et al.

Journal of catalysis, 286(9), 30-40 (2012-08-10)

The synthesis and characterization of a novel catalytic system including Pd(OAc)₂ attached to a bis(oxazoline) (=BOX) ligand that is covalently bonded to 3-mercaptopropyl-functionalized silica gel is presented. The catalyst was tested for Suzuki-Miyaura reactions of different aryl halides with phenylboronic

Inorganic-organic hybrid silica based tin complex as a novel, highly efficient and recyclable heterogeneous catalyst for the one-pot preparation of spirooxindoles in water.

Ramin Ghahremanzadeh et al.

Dalton transactions (Cambridge, England : 2003), 43(42), 15791-15797 (2014-09-13)

In the present study, a tin complex immobilized on silica gel as a novel, green, highly efficient and heterogeneous reusable catalyst was synthesized by grafting 2-amino benzamide onto the silica gel surface as a result of the reaction between isatoic

Analysis of polychlorinated biphenyls in fatty biological matrixes by on-line supercritical fluid extraction and supercritical fluid cleanup.

E G Alley et al.

Journal of AOAC International, 78(4), 1051-1054 (1995-07-01)

We present a method that combines the extraction of polychlorinated biphenyls (PCBs) and their separation from relatively large quantities of fat in biological matrixes by combined supercritical fluid extraction and separation. Cyano-functionalized silica gel, silica gel, aluminum oxide, Florisil, 3-amino-propyl-functionalized

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Functionalized Silica Gels for Organic Synthesis

Functionalized silica gel is used in size-exclusion chromatography of cationic polymers and in the separation of sugars, steroids, cholesterol, and triglycerides.

Knoevenagel Condensation Reaction

Knoevenagel Condensation is an organic reaction named after Emil Knoevenagel. It is a classic C-C bond formation reaction and a modification of the Aldol Condensation.

Évaluations



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Questions

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