

Your partner
for functional
excipients
Isodel



VIT E - TPGS
VIT E - PREMIXES

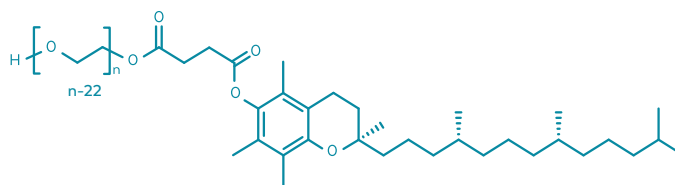
ISODEL TPGS MCC
ISODEL TPGS KOL
ISODEL TPGS MANI
ISODEL TPGS SF



isodel™ VITAMIN E TPGS

Pharma (NF) and Food Grade

Tocophersolan or D-α-tocopheryl polyethylene glycol succinate (Vitamin E TPGS or TPGS) was developed 75 years ago by Eastman Kodak as a water-soluble form of vitamin E, has been approved by FDA as a safe adjuvant and is now widely used in drug delivery systems for marketed drugs. Its surfactant properties triggered the interest of drug formulation developers before it steadily moved into the toolbox of pharmaceutical drug-delivery innovators. The biological and physicochemical properties of TPGS provide multiple advantages for its applications in drug delivery like high biocompatibility, enhancement of drug solubility, improvement of drug permeation and selective antitumor activity.



CHEMICAL NAME
D-α-tocopheryl polyethylene glycol 1000 succinate

SYNONYMS/ACRONYMS
Tocofersolan
Tocophersolan
TPGS / Vit-E-TPGS

CAS # 9002-96-4
US DMF# 23823
C DMF# 20190000289

isodel™ TPGS PREMIXES

Functional excipients with unique properties and new easy-handling solid forms

D-alpha-tocopheryl polyethylene glycol succinate (TPGS) is widely recognized for its pharmaceutical applications; however, its physical state as a waxy solid at room temperature poses significant challenges for industrial handling and formulation. This inherent property necessitates heating to convert TPGS into a workable viscous liquid,

requiring specialized equipment and knowledge of wax handling, and increasing operational complexity. Additionally, handling TPGS at elevated temperatures introduces safety concerns, further limiting its widespread adoption in pharmaceutical and industrial applications.



Waxy solid at room temperature (mp 37-41°C)



Free flowing powder



TPGS Premixes were designed to bring a maximum of properties to your solid formulations providing unique easy handling and processing performance in your process.

ISODEL TPGS MCC

is a premix composed with TPGS supported on microcrystalline cellulose including a minor amount of silica.

PRODUCT IDENTIFICATION

Ingredient name	ISODEL TPGS MCC
Reference	602700
Ingredient composition	Vitamin E Polyethylene Glycol Succinate 46% (TPGS / Vit E-TPGS) Microcrystalline cellulose 53% (MCC) Silica 1%
Particle Size Distribution	$D_{10} = 120 \mu\text{m}$ - $D_{50} = 350 \mu\text{m}$ - $D_{90} = 775 \mu\text{m}$
Bulk Density	0.6
Tapped Density	0.7

Chemical and physical stability was demonstrated until 40 °C over 1 year



ISODEL TPGS SF

is a premix composed with TPGS supported on sodium stearyl fumarate including a minor amount of silica.

PRODUCT IDENTIFICATION

Ingredient name	ISODEL TPGS SF
Reference	605100
Ingredient composition	Vitamin E Polyethylene Glycol Succinate 49,5% (TPGS / Vit E-TPGS) Sodium Stearyl Fumarate 49,5% (SSF) Silica 1%
Particle Size Distribution	$D_{10} = 215 \mu\text{m}$ - $D_{50} = 380 \mu\text{m}$ - $D_{90} = 915 \mu\text{m}$
Bulk Density	0.6
Tapped Density	0.7

Chemical and physical stability ongoing



ISODEL TPGS KOL

is a premix composed with TPGS supported on copovidone

PRODUCT IDENTIFICATION

Ingredient name	ISODEL TPGS KOL
Reference	605200
Ingredient composition	Vitamin E Polyethylene Glycol Succinate 35% (TPGS / Vit E-TPGS) Copovidone 65% (KOL)
Particle Size Distribution	$D_{10} = 280 \mu\text{m}$ - $D_{50} = 510 \mu\text{m}$ - $D_{90} = 995 \mu\text{m}$
Bulk Density	0.4
Tapped Density	0.5

Chemical and physical stability ongoing



ISODEL TPGS MANI

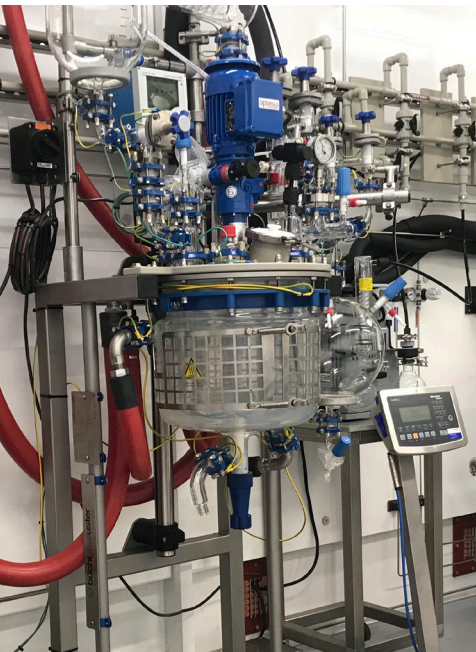
is a premix composed with TPGS supported on mannitol

PRODUCT IDENTIFICATION

Ingredient name	ISODEL TPGS MANI
Reference	605500
Ingredient composition	Vitamin E Polyethylene Glycol Succinate 16% (TPGS / Vit E-TPGS) Mannitol 82% (MANI) Silica 2%
Particle Size Distribution	$D_{10} = 100 \mu\text{m}$ - $D_{50} = 330 \mu\text{m}$ - $D_{90} = 630 \mu\text{m}$
Bulk Density	0.7
Tapped Density	0.8

Chemical and physical stability ongoing





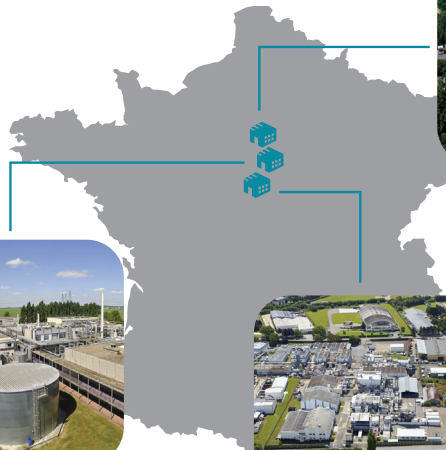
50 years
expertise & experience
in complex organic molecule
syntheses

3 c-GMP
manufacturing sites
around Paris, France

From
lab to multi tons
productions



GMP sites
France



GENNEVILLIERS
(plant)



VERT-LE-PETIT
(Plant, R&D Center, HQ)



PITHIVIERS
(plant)



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