



VITAMIN E TPGS

Pharma (NF) and Food Grade

PROPERTIES

DRUG BIOAVAILABILITY

- > Solubilizer of poorly water-soluble drugs
- > Enhancer of drug permeability by P-glycoprotein efflux inhibition
- > Stabilizer of amorphous drug dispersions
- > Co-Excipient with other Polymers

FUNCTIONAL INGREDIENT

- > Emulsion vehicle
- > Ingredient for self-emulsifying formulations
- > Thermal binder in melt granulation/extrusion processing

WATER SOLUBLE SOURCE OF VITAMIN E

Isodel TPGS is also used as an efficient source of natural Vitamin E, both for therapeutic and nutrition purposes.

THE PRODUCT

Chemical Abstract Index name: Vitamin E polyethylene Glycol Succinate or α -[4-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[[[4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6 yl]oxy]-1,4-dioxobutyl]- ω -hydroxy-poly(oxy-1,2-ethanediyl)]

Empirical formula: $C_{33}O_5H_{54}(CH_2CH_2O)_n$

Molecular weight: \approx 1500 Da or g/mol

Physical form: waxy solid

Melting point: 36-42 °C

Color: white to light tan

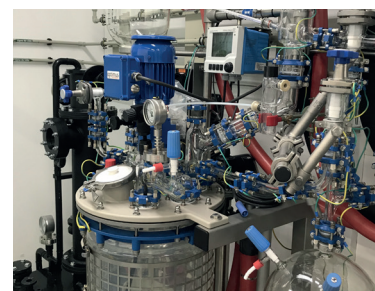
Vitamin E content: 25%-30%

Solubility in water w/v %: 20% at 20 °C

Aspect: forms gels in water > 20% w/v

HLB (hydrophile/lipophile balance): 13

CMC (Critical Micelle Concentration): 0.02 wt% at 37 °C



ISODEL™ TPGS

14+ years of GMP production and supply of TPGS as functional excipient and drug substance.

- > ISODEL™ TPGS (USP compliant):
API grade, NF & food grade
- > Active DMF (US, China)
- > 100 mt capacity & manufacturing under GMP in 2 FDA-approved sites (in Europe)
- > 100g free sample for proof of concept
- > Packaging 1, 5, 20 and 100 kg GMP

- > Robust partner for innovation and regulatory approval
- > Retest date: 4 years
- > Supporting information: Upon request
 - Material safety data sheet
 - Quality documentations and statements BSE/TSE, non-GMO, Kosher, ...)
 - Technical data sheet
 - Handling standard operating procedure

CONTACT



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GENERAL REQUESTS

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KARINE SALIM

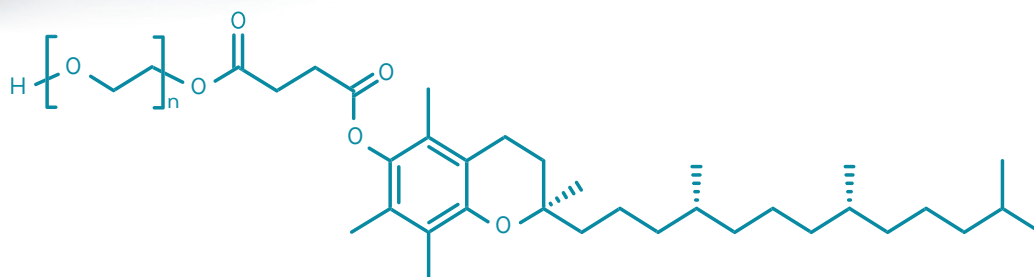
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pmc isochem™

isodel™ VITAMIN E TPGS

Pharma (NF) and Food Grade



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

APPLICATION

Vit-E-TPGS has proven properties to improve bioavailability of poorly soluble drugs, vitamins, micronutrients and functional properties in advanced formulation technologies.

Isodel™ TPGS: used in several marketed drug products
(Functional Excipient or API)

FORMULATION / ADMINISTRATION

Oral
Parenteral
Topical
Ophthalmic
Nasal

APPLICATION FIELD

Pharmaceutical
Human Nutritional supplements
Animal nutrition
Cosmetic & Personal care
Food and beverage

TPGS: Functional ingredient of **Self-Emulsifying Drug Delivery System** and stabilizer of **amorphous solid dispersions**. **Plasticizer/binder** for innovative technologies in the pharmaceutical industry such as **hot melt extrusion**. Efficient source of natural Vitamin E for both **therapeutic and nutraceutical** purposes.