VITAMIN E TPGS

Vitamin E polyethylene Glycol Succinate or Vitamin E TPGS is a surfactant which can be used as emulsifier, drug solubilizer, absorption enhancer, and as a vehicle for lipid-based drug delivery formulations.

MAIN STRUCTURE

D-α-TOCOPHERYL POLYETHYLENE GLYCOL 1000 SUCCINATE

PROPERTIES OF VITAMIN E TPGS

- Improving Drug Bioavailability
  - Surfactant, enhance solubilization of poorly water soluble drug
  - Stabilization of amorphous drug
  - Enhances drug permeability by P-glycoprotein efflux inhibition.

- Emulsion vehicle
- Functional Ingredient in self-emulsifying formulations
- Thermal binder in melt granulation/extrusion processing
- Reducing drug sensitivity on skin or tissues
- Carrier for wound care and treatment
VITAMIN E TPGS

- Chemical Abstract Index name: Vitamin E Polyethylene Glycol Succinate
- CAS: 9002-96-4
- Empirical Formula: C_{33}H_{54}O_{5}(C_{2}H_{4}O)_{n}
- Molecular Weight: ~1513 Da
- Physical form: solid wax with low melting point: 36 - 42 °C
- Color: White to light tan
- Vitamin E content (d-α-tocopherol) 25 % minimum weight basis; standard range 25-30 %
- Retest date: 2 years

APPLICATION FIELD OF VITAMIN E TPGS

Due to its properties, Vitamin E TPGS is used for various applications:
- Pharmaceutical
- Nutraceutical
- Food & Beverage
- Cosmetic & Personal Care
- Animal Nutrition

MORE ABOUT VITAMIN E TPGS

Applications & Properties


On Safety:


