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

CAS: 9002-96-4

**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
- Therwmal 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:
  \[\alpha\]-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|\omega\)-hydroxy-poly(oxy-1,2-ethanediyl)

- CAS: 9002-96-4
- Empirical Formula: \(C_{33}H_{54}O_{5}(C_2H_4O)_n\)
- Molecular Weight: ~1513 Da
- Physical form: waxy solid with low melting point: 36 - 42 °C
- Color: White to light tan
- Vitamin E content (d-\(\alpha\)-tocopherol) 25 % minimum weight basis; standard range 25-30 %

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:


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