



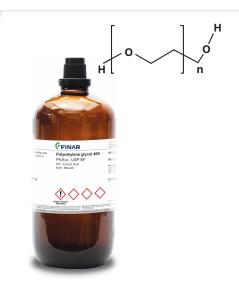
Technical Data Sheet

Polyethylene glycol 400

Ph.Eur., USP-NF

Applications

Polyethylene glycol 400 is used as solubilizing agent, solvent vehicle, ointment base, emulsion stabilizer, suspending agent and a plasticizer. Its application is in almost all dosage forms including Solid oral, Semi-solid, Topical and Parenteral formulations.



General Information

Pharmacopeia Status : Ph.Eur., USP-NF CAS No. : 25322-68-3 EC No. : 500-038-2

Appearance/Description : Clear to slightly hazy, colourless or practically colourless, slightly hygroscopic, viscous liquid having a slight characteristic odour and specific gravity at 25°C of about 1.12

Molecular Formula : (C₂H₄O) nH₂O Molecular Mass : 380-420 g/mol

Marketed Formulations

• Vancomycin injection

· Bexarotene capsule

Busulfan injection

- · Digoxin capsule
- Amprenavir capsule/oral solution
- Etoposide capsule and more...

Quality and Regulatory Support

- · GMP and ISO certification
- EXCiPACT certification
- · Nitrosamine impurity risk assessment
- · Elemental impurity risk assessment
- · Residual solvent declaration
- Genotoxic impurity declaration
- Vendor questionnaire and site audit
- CMC documentation
- Regulatory queries

Key Product Attributes

- · Manufacturing and packing under GMP environment
- Low Endotoxin suitable for parenteral application
- · Control of TAMC & TYMC
- · Control of sub-visible particles
- · Control of elemental impurities as per ICH Q3D
- Control of Hydroxyl value, Formaldehyde, Ethylene glycol & Diethylene glycol, Ethylene oxide & Dioxane

Pack Mode

- 2.5 ltr, 2.5 kg, glass bottle
- 25 kg HDPE container

Stability and Storage Conditions

Polyethylene glycol is chemically stable in air and in solution, although grades with a molecular weight less than 2000 are hygroscopic. Polyethylene glycol does not support microbial growth and does not become rancid. Polyethylene glycol and aqueous polyethylene glycol solutions can be sterilized by autoclaving, filtration, or gamma irradiation.

Safety and Handling Information

Observe normal precautions appropriate to the circumstances and quantity of material handled. Eye protection is recommended.

Pharmaceutical Specifications

Clear to slightly hazy, colourless or practically colourless, slightly hygroscopic, viscous liquids, having a slight, characteristic odour and a specific gravity at 25°C
of about 1.12 (Ph.Eur, USP-NF)
Miscible with water, soluble in acetone, alcohol, chloroform, ethylene glycol,
monoethyl ether, ethyl acetate and toluene. Insoluble in ether, fatty oils, in
mineral oils and in hexane (USP-NF, Ph.Eur)
95.0% - 105.0% (average molecular weight) (USP-NF)
To comply the test (Ph.Eur)
An abundant white, crystalline precipitate should form (Ph.Eur)
The liquid phase should become blue (Ph.Eur)
The solution should be clear and not more intensely colored than reference
solution BY6 (Ph.Eur)
Passes test (Ph.Eur)
94 - 116 mm2.s-1 (Ph.Eur)
105 - 130 mPa.s (Ph.Eur)
264 - 300 (Ph.Eur)
Passes test (Ph.Eur)
30ppm max. (Ph.Eur)
0.4% max. (Ph.Eur)
0.25% max. (Sum of ethylene glycol & diethylene glycol) (USP-NF)
1ppm max. (Ph.Eur)
10 μg/g max. (USP-NF)
10ppm max. (Ph.Eur)
10 μg/g max. (USP-NF)
4.5 - 7.5 (USP-NF)
Passes test (USP-NF)
6.8 - 8.0 Centistokes (USP-NF)
2.0% max. (Ph.Eur)
0.2% max. (Ph.Eur)
0.1% max. (USP-NF)
NMT 100 cfu/ml
NMT 10 cfu/ml
Absent/ml
Absent/ml
Absent/ml
Absent/ml

Regulatory Information

Included in the FDA Inactive Ingredients Database (dental preparations; IM and IV injections; ophthalmic preparations; oral capsules, solutions, syrups, and tablets; rectal, topical, and vaginal preparations). Included in non-parenteral medicines licensed in the UK and the Canadian list of Acceptable Non-medicinal Ingredients.

Shipping Information

By Sea, Air and RoadNature: Non-Hazardous

See the Material Safety Data Sheet on www.finarchemicals.com

Note: The information contained herein is to our best knowledge true and accurate, but all recommendations or suggestions are made without guarantees since the conditions of use are beyond our control. Finar disclaims any liability incurred with the use of this data or suggestions.

For more information contact: deepaklodhiya@finarchemicals.com

Finar Limited

CORPORATE OFFICE & WORKS

184-185-186/P, Vill:Chacharwadi Vasna, Bavla 8km milestone, Sarkhej Bavla Highway, Sanand, Ahmedabad – 382110. Gujarat, INDIA. t: +91-2717-616717 | e: sales@finarchemicals.com www.finarchemicals.com

