PEG 4000

Polyethylene Glycol

CAS No.: 25322-68-3
Formula: $H(OCH_2CH_2)nOH$

DESCRIPTION

Polyethylene Glycol 4000 (PEG 4000) is a medium molecular-weight polyethylene glycol presented as a white to light-yellow solid. It exhibits low volatility, minimal ash content, and is slightly hygroscopic. PEG 4000 is highly hydrophilic and readily soluble in water and many polar solvents. Its aqueous solutions remain stable in the presence of inorganic salts and hard water.

KEY FEATURES

- Excellent water solubility and hydrophilic character
- Chemically stable and non-volatile
- Non-toxic, odourless, and non-irritating
- Compatible with a wide range of organic and inorganic materials
- Consistent melting range suitable for formulations requiring solid carriers

APPLICATIONS

- Used as a base in ointments, creams, and suppositories
- Binder, plasticizer, or lubricant in pharmaceutical and cosmetic formulations
- Humectant and dispersing agent in industrial and personal care applications
- Carrier in solid dosage and controlled-release drug formulations

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This document is subject to revision without notice as new data becomes available.

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TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	White or light-yellow flakes
Molecular Weight	3700 – 4300 g/mol
Colour (Pt-Co)	≤ 30
pH (5% solution)	5.0 – 7.0
Water Content	≤ 0.50%

PACKAGING
25 kg bags (plastic-lined). Alternative packaging available upon request.

STORAGE
Store in a cool, dry, and well-ventilated area away from heat and moisture. Keep containers tightly closed.
Shelf Life: 12 months under recommended storage conditions.

SAFETY & HANDLING
Refer to the Safety Data Sheet (SDS) for complete handling and safety information. Avoid generation of dust and contact with eyes or skin. Wash thoroughly after handling.