Pharmaceutical raw material

# Polyethylene glycol (PEG, macrogol)

Excipients for tablets and semi-solids

**CAS 25322-68-3**



Material illustration

## Substance identity

A family of polymers with different chain lengths. A grade number denotes the nominal average molecular weight. Physical state depends on the grade.

| Property | Reference value | Method or source |
|---|---|---|
| CAS number | **25322-68-3** | USP–NF |
| Chemical formula | **$H(OCH_2CH_2)_nOH$** | USP–NF |
| Grade selection parameter | **Average molecular weight** | USP–NF |

For acceptance, check the agreed specification and the certificate of analysis (COA) for the delivered lot.



## Applications

Polyethylene glycols vary in average molecular weight. Liquid grades can act as solvents or vehicles, while higher molecular weight grades can contribute structure to ointment bases. The choice changes the consistency of the base.



## Purchasing criteria

Give the numerical designation, such as PEG 400 or PEG 4000, and the required physical form. For liquids, specify viscosity test conditions. For solids, give the particle-size or solidification range where relevant.

**Technical reference**

USP–NF