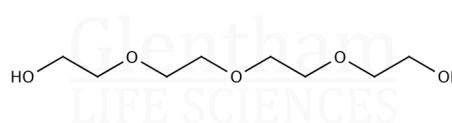


## Product Specification

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Product Name      | Polyethylene glycol 4000, BP, Ph. Eur., USP/NF grade |
| Glenthams Code    | GC0009                                               |
| CAS Number        | 25322-68-3                                           |
| EINECS            | 500-038-2                                            |
| Numéro MDL        | MFCD00081839                                         |
| Molecular Weight  | 3,600 - 4,400                                        |
| Molecular Formula | $(-CH_2CH_2O-)_n$                                    |
| Storage Temp.     | +20°C                                                |



| Property                       | Specification                                      |
|--------------------------------|----------------------------------------------------|
| Physical Description           | White or almost white solid with a waxy appearance |
| Identification                 | To pass tests A, B, C according to Ph Eur.         |
| Solubility (25% in water)      | Clear, colourless solution                         |
| pH (5% in water)               | 4.5 - 7.5                                          |
| Molecular Weight               | 3600 - 4400                                        |
| Freezing Point                 | 53 - 59 °C                                         |
| Acidity or Alkalinity          | ≤ 0.1ml (of 0.1M NaOH required)                    |
| Dynamic Viscosity              | 110 - 170 mPa.s (50% in water)                     |
| Kinematic Viscosity            | 102 - 158 mm <sup>2</sup> /s (50% in water)        |
| Dynamic Viscosity              | 110 - 158 cSt (98.9°C)                             |
| Hydroxyl Value                 | 25.0 - 32.0 mgKOH/g                                |
| Sulphated Ash                  | ≤ 0.2%                                             |
| Residue on Ignition            | ≤ 0.1%                                             |
| Reducing Substances            | To pass test                                       |
| Formaldehyde                   | ≤ 30ppm                                            |
| Ethylene Oxide                 | ≤ 1ppm                                             |
| 1,4-Dioxane                    | ≤ 10ppm                                            |
| Water                          | ≤ 1.0%                                             |
| Pharmacopoeia Specification(s) | BP, Ph. Eur., USP/NF                               |

|                       |              |
|-----------------------|--------------|
| Specification Version | - v1.1       |
| Date Created          | - 2024-09-25 |

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glenthams.com](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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