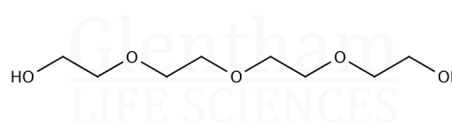


Certificate of Analysis

Product Name	Polyethylene glycol 400, BP, Ph. Eur., USP/NF grade
Glenthams Code	GC0231
CAS Number	25322-68-3
EINECS	500-038-2
MDL Number	MFCD00081839
Batch Number	585LFZ

Molecular Weight	~400
Molecular Formula	$(-CH_2CH_2O-)_n$
Storage Temp.	+20°C



Property	Specification	Batch 585LFZ
Physical Description	Clear, viscous, colourless or almost colourless hygroscopic liquid	Clear, almost colourless liquid
Identification	To pass tests	Conforms
Colour (Hazen)	≤ 25 (20°C)	Conforms
Solubility (25% in water)	Clear, colourless solution ($\leq$ BY6)	Conforms
Acidity or Alkalinity	≤ 0.1 ml (of 0.1M NaOH required)	0.0 ml
Dynamic Viscosity	105 - 130 mPa.s (20°C)	121 mPa.s
Kinematic Viscosity	94 - 116 mm ² /s (20°C)	107 mm ² /s
pH (5% in water)	4.5 - 7.5	7.1
Molecular Weight	380 - 420	402
Hydroxyl Value	267 - 294 mgKOH/g	279 mgKOH/g
Reducing Substances	To pass test	Conforms
Sulphated Ash	$\leq 0.1\%$	0.0%
Formaldehyde	To pass test	Conforms
Ethylene Glycol and Diethylene Glycol	$\leq 0.25\%$	0.02%
Ethylene Oxide	≤ 1 ppm	Not detected
1,4-Dioxane	≤ 10 ppm	Not detected
Organic Volatile Impurities	To pass test	Conforms
Water	$\leq 2.0\%$	0.3%
Pharmacopoeia Specification(s)	BP, Ph. Eur., USP/NF	Conforms

Specification Version	v1.0
Manufacture Date	2021-12-08
Re-Test Date	2029-01-17

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 or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glenthams Life Sciences Ltd, 2024