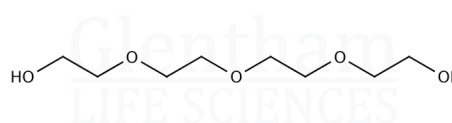


Certificate of Analysis

Product Name	Polyethylene glycol 400, BP, Ph. Eur., USP/NF grade
Glentham Code	GC0231
CAS Number	25322-68-3
EINECS	500-038-2
MDL Number	MFCD00081839
Batch Number	704JQM

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



Property	Specification	Batch 704JQM
Physical Description	Clear, viscous, colourless or almost colourless hygroscopic liquid	Conforms
Identification	To pass tests	Conforms
Colour (Hazen)	≤ 25 (20°C)	15
Solubility (25% in water)	Clear, colourless solution (≤ BY6)	Conforms
Acidity or Alkalinity	≤ 0.1ml (of 0.1M NaOH required)	0.1ml
Dynamic Viscosity	105 - 130 mPa.s (20°C)	122mPa.s
Kinematic Viscosity	94 - 116 mm²/s (20°C)	108mm²/s
pH (5% in water)	4.5 - 7.5	6.4
Molecular Weight	380 - 420	407
Hydroxyl Value	267 - 294 mgKOH/g	276mgKOH/g
Reducing Substances	To pass test	Conforms
Sulphated Ash	≤ 0.1%	0.0%
Formaldehyde	To pass test	Conforms
Ethylene Glycol and Diethylene Glycol	≤ 0.25%	0.02%
Ethylene Oxide	≤ 1ppm	0ppm
1,4-Dioxane	≤ 10ppm	1ppm
Heavy Metals	≤ 5ppm	0ppm
Organic Volatile Impurities	To pass test	Conforms
Water	≤ 2.0%	0.3%
Pharmacopoeia Specification(s)	BP, Ph. Eur., USP/NF	Conforms

Specification Version	v1.0
Manufacture Date	2024-12-03
Re-Test Date	2028-01-22

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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