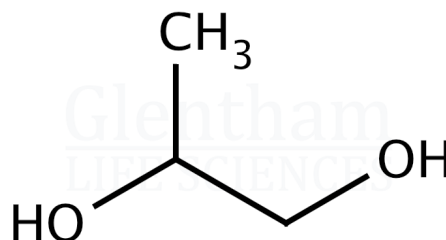


## Certificate of Analysis

Product Name	Propylene glycol, Ultrapure, 99.5%, BP, Ph. Eur., USP grade
Glentham Code	GK3409
CAS Number	57-55-6
EINECS	200-338-0
MDL Number	MFCD00064272
Batch Number	480LTW
Molecular Weight	76.10
Molecular Formula	$C_3H_8O_2$
Storage Temp.	+20°C



Property	Specification	Batch 480LTW
Physical Description	Clear, colourless, viscous liquid	Conforms
Identification	To conform with all BP, Ph. Eur., USP tests	Conforms
Colour (APHA)	≤ 5	Conforms
Relative Density (20°C)	1.0350 - 1.0400	1.0383
Refractive Index (20°C)	1.4310 - 1.4330	1.4330
Acidity	To pass test	Conforms
Acidity (as acetic acid)	≤ 0.003%	Conforms
Reducing Substances	To pass test	Conforms
Oxidising Substances	To pass test	Conforms
Heavy Metals	≤ 5ppm	Conforms
Sulphated Ash	≤ 0.007%	0.003%
Water	≤ 0.2%	Conforms
Chloride (Cl)	≤ 70ppm	Conforms
Sulphate (SO <sub>4</sub> )	≤ 60ppm	Conforms
Iron (Fe)	≤ 0.3ppm	≤ 0.1ppm
Arsenic (As)	≤ 2.0ppm	Conforms
Lead (Pb)	≤ 1.0ppm	Conforms
Cadmium (Cd)	≤ 0.5ppm	Conforms
Mercury (Hg)	≤ 1.0ppm	Conforms
Purity	≥ 99.5%	≥ 99.9%
Pharmacopoeia Specification(s)	BP, Ph. Eur., USP	Conforms

Specification Version	v1.2
Manufacture Date	2024-01-31
Re-Test Date	2031-02-01

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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