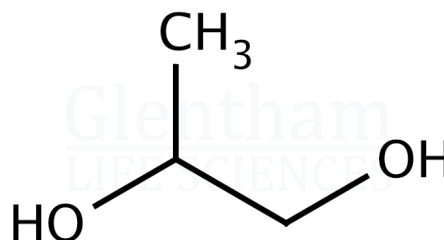


Certificate of Analysis

Product Name	Propylene glycol, Ultrapure, 99.5%, BP, Ph. Eur., USP grade
Glenthams Code	GK3409
CAS Number	57-55-6
EINECS	200-338-0
MDL Number	MFCD00064272
Batch Number	480LTW
Molecular Weight	76.10
Molecular Formula	C ₃ H ₈ O 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 ₄)	≤ 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

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.

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