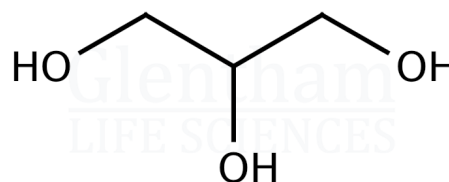


Certificate of Analysis

Product Name Glycerol
Glentham Code GC2187
CAS Number 56-81-5
EINECS 200-289-5
MDL Number MFCD00004722
PubChem SID 310274263
Batch Number 907TCL

Molecular Weight 92.09
Molecular Formula $C_3H_8O_3$
Storage Temp. +20°C



Property	Specification	Batch 907TCL
Physical Description	Clear, colourless liquid	Clear, colourless liquid
Assay	≥ 99.5%	99.8%
Identification	To pass BP, EP, USP tests	Conforms
Appearance of Solution	25% in water: Clear, colourless solution	Conforms
Acidity and Alkalinity	≤ 0.2ml (0.1M NaOH)	≤ 0.1ml
Refractive Index	1.471 - 1.474 (20°C)	1.474
Aldehydes	≤ 10ppm	Conforms
Esters	≥ 8.0ml (0.1M HCl)	8.2ml
Impurities	Impurity A and related substances: To pass BP, EP tests	Conforms
Halogenated Compounds	≤ 35ppm	Conforms
Sugars	≤ 10ppm	Not presentppm
Chlorides	≤ 10ppm	1ppm
Water (KF)	≤ 0.5%	0.3%
Residue on Ignition	≤ 0.01%	Conforms
Colour (APHA)	≤ 10 Hazen	Conforms
Butanetriols	≤ 0.2%	0.1%
3-MCPD	≤ 0.1ppm	Conforms
Pharmacopoeia Specification(s)	BP, EP, USP	Conforms

Specification Version v1.1
Manufacture Date 2022-11-07
Re-Test Date 2029-12-06

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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