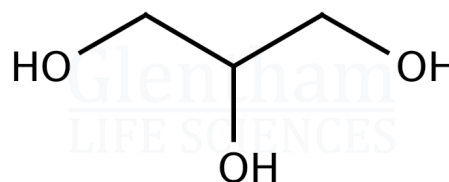


## Product Specification

Product Name	Glycerol, 99.5%, Ph. Eur., USP, Ultrapure
Glentham Code	GC5551
CAS Number	56-81-5
EINECS	200-289-5
MDL Number	MFCD00004722
Molecular Weight	92.09
Molecular Formula	$C_3H_8O_3$
Storage Temp.	+20°C



Property	Specification
Physical Description	Clear, colourless liquid
Identification	According to Ph. Eur., USP
Solubility (20% in water)	Clear, colourless solution
Acidity or Alkalinity	≤ 0.2ml (of 0.1M NaOH required)
Refractive Index	1.470 - 1.475
Aldehydes	≤ 10ppm
Esters	≥ 8.0ml (of 0.1M HCl required)
Diethylene Glycol	≤ 0.1%
Any Individual Impurity	≤ 0.1% (with a retention time ≤ glycerol, Ph. Eur.)
Total Impurities	≤ 0.5% (with a retention time ≥ glycerol, Ph. Eur.)
Any Individual Impurity	≤ 0.1% (USP)
Sugars	To pass Ph. Eur. test
Chlorides	≤ 10ppm
Sulphates	≤ 20ppm
Halogenated Compounds	≤ 35ppm
Chlorinated Compounds	≤ 30ppm
Fatty Acids and Esters	≤ 1.0ml (of 0.5M NaOH required)
Colour	To pass USP test
Specific Gravity	≥ 1.249
Heavy Metals (as Pb)	≤ 5ppm
Sulphated Ash	≤ 0.01%
Arsenic (As)	≤ 3ppm
Lead (Pb)	≤ 2ppm
Cadmium (Cd)	≤ 1ppm
Mercury (Hg)	≤ 1ppm
Water	≤ 1.0%
Assay	99.5 - 101.0 % (Ph. Eur. test)
Assay	99.5 - 101.0 % (USP test)

## Product Specification

Pharmacopoeia Specification(s)	Ph. Eur., USP
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Specification Version	-	v1.1
Date Created	-	2023-01-27

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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