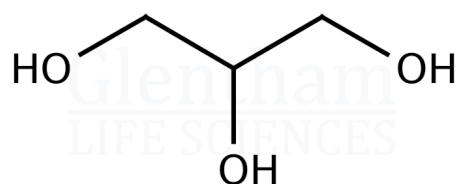


Product Specification

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 or contact us using the details above for the current version of this document.

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