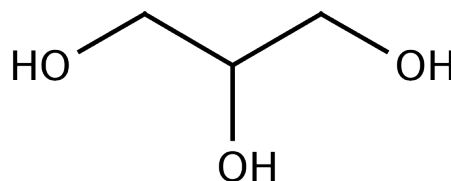


## Product Specification

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



Molecular Weight : 92.09  
Molecular Formula : C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>  
Storage Temp. : +20°C

Property	Specification
Physical Description	Clear, colourless liquid
Assay	≥ 99.5%
Identification	To pass BP, EP, USP tests
Appearance of Solution	25% in water: Clear, colourless solution
Acidity and Alkalinity	≤ 0.2ml (0.1M NaOH)
Refractive Index	1.471 - 1.474 (20°C)
Aldehydes	≤ 10ppm
Esters	≥ 8.0ml (0.1M HCl)
Impurities	Impurity A and related substances: To pass BP, EP tests
Halogenated Compounds	≤ 35ppm
Sugars	To pass BP, EP tests
Chlorides	≤ 10ppm
Heavy Metals	≤ 5ppm
Water	≤ 0.5%
Sulphated Ash	≤ 0.01%
Colour (APHA)	≤ 10 Hazen
Arsenic (As)	≤ 2ppm
Mercury (Hg)	≤ 1ppm
Cadmium (Cd)	≤ 1ppm
Lead (Pb)	≤ 2ppm
Nickel (Ni)	≤ 20ppm
Butanetriols	≤ 0.2%
3-MCPD	≤ 0.1ppm

## Product Specification

Pharmacopoeia Specification(s)                      BP, EP, USP

Specification Version       :    v1.0

Date Created                :    2013-10-29

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2019