

# GMP Solution

**ICH-Q7 GMP Manufactured Product** 

**Formula:** C<sub>3</sub> H<sub>8</sub> O<sub>3</sub> **F.W.:** 92.1 g/mol

CAS #: 56-81-5

# Synthetic Glycerin, USP, EP, Parenteral Grade, GMP Excipient Grade

#### **INTENDED FOR USE AS A PARENTERAL EXCIPIENT**

Synthetic Parenteral Glycerin (Glycerol) is a fully synthetic, parenteral grade, suitable for use in insulin manufacturing and other critical cGMP manufacturing applications and pharmaceutical preparations.

#### Lead Time: Please Inquire Minimum Order Quantity: Please Inquire

# BIO EXCIPIENT GRADE | Product Code: GLYS-3151

C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> • F.W. 92.1 g/mol. • CAS# 56-81-5

These are general specifications. BioSpectra will customize our products to meet your quality based requirements.

## **USP** Compendia

ANALYSIS SPI		PECIFICATIONS
Assay (Dried Basis)		99.0 to 101.0%
Chloride		≤ 10ppm
Color		Passes Test
Fatty acid and Esters		Passes Test
Identification	Identification A IR Identification B Diethylene glycol Identification B ethylene glycol Identification C by GC	Conforms with reference standard ≤ 0.025% <sup>1</sup> ≤ 0.025% <sup>1</sup> Passes Test
Limit of Chlorinate Compounds		≤ 30ppm of Cl
Related Compounds	Any Individual Impurity Total Impurities	≤ 0.1% ≤ 0.5% <sup>1</sup>
Residue of Ignition		≤ 0.01%
Specific gravity (at 25.0°C)		≥ 1.249
Sulfate		≤ 20ppm
Water Content		≤ 2.0% <sup>1</sup>



<sup>1</sup>stringent specification

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# Quality Assurance / Regulatory Support / Quality Control

	ANALYSIS	SPECIFICATIONS
Aldehydes		≤ 10ppm
Acidity or alkalinity		Passes Test
Appearance		Clear, colorless, or almost colorless viscous liquid
Appearance of solution	I Contraction of the second	Solution is clear, colorless
Assay (Dried Basis)		99.0 to 101.0% <sup>1</sup>
Chlorides		≤ 10ppm
Esters		Passes Test
Halogenated compoun	ds	≤ 35ppm
Identification	Identification A, Refractive Index Identification B, IR Identification C, Relative density	1.470 – 1.475 Conforms with reference standard 1.258 - 1.268
Related substances	Impurity A Any other Individual impurity Total impurities	≤ 0.025% <sup>2</sup> ≤ 0.1% ≤ 0.5%
Sugars		Passes Test
Sulfated Ash		≤ 0.01%
Water		≤ 2.0%

#### **General Product Description:**

Synthetic Glycerin is produced at our cGMP platform in India and then shipped to and fully retested and packaged at our sites in Rensselaer, NY and Bangor PA, USA.

- Synthetic Glycerin is a Clear Liquid product.
- Molecular Formula: C<sub>3</sub> H<sub>2</sub> O<sub>3</sub>
- Molecular Weight: 92.09 g/mol
- CAS Number: 56-81-5
- There are no known major food allergens (as defined by FDA and WHO) in the manufacture of this product.
- Synthetic Glycerin GLYS-3151 at BioSpectra and its raw materials are not derived from or come in contact with animal parts, products, and/or byproducts.
- Synthetic Gycerin manufactured at our cGMP platform in India and any raw materials used in the manufacture of Synthetic Glycerin at BioSpectra are not subject to genetic modification.
- Synthetic Gycerin is further purified at our site in Canada, Dextran Products apart of the BioSpectra Organization
- Synonyms: Glycerol, Glycerolum, Glicerol, Glyzerin, 1,2,3-Propantriol, Glycerinester, Pfl.

# **GMP** Compliance:

Bio Excipient Grade Synthetic Glycerin, GLYS-3151 is suitable for use as an excipient. It is manufactured in accordance with the ICH-Q7 Good Manufacturing Practice Guide. This grade of Synthetic Glycerin is not suitable to be used as an Active Pharmaceutical Ingredient, Drug Product or Household Item.

## **Retest Date:**

The recommended retest period for Synthetic Glycerin is two years from the date of manufacture.

## **Storage and Shipping Conditions:**

Ship and store in ambient temperature.

#### **Package Sizes:**

6x1L, 4x 3.78L, 10L, 200L and 1000 liter

(Please contact us for more specific information about your package size and Chain of Custody.)

# **Country of Origin:**

India

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# **EP** Compendia

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