

# Glycerin 99,5 % PF

Revision-No.: 10-08.2004 Effective January 1, 2005

**Chem. designation:** 1,2,3-Propantriol (Trihydroxypropane)  
Glycerin 99.5 % of vegetable origin

**Physical characterisation:** Clear, colourless and sirupy liquid, nearly odourless at temperatures of 20°C  
Product is hygroscopic

**Registration:**  
EINECS: 200-289-5  
CAS-No: 56-81-5

## Specification

Quality control data <sup>1)</sup>				
Specifications	Method according to PH.EUR.	Requirements of PH.EUR.	Specified range	Typical values <sup>2)</sup>
<b>Characters</b>	2005:0496 !!	clear and colourless	clear and colourless	clear and colourless
<b>Identity</b>	2005:0496 !!	meets tests A and B	meets tests A and B	meets tests A and B
<b>Appearance of solution</b>	2.2.1 / 2.2.2 method II	meets test	meets test	meets test
<b>Acidity / Alkalinity [mL]</b>	2005:0496 !!	max. 0.2	max. 0.2	0.05
<b>Refractive index nD 20°C</b>	2.2.6	1.470 - 1.475	1.470 - 1.475	1.4739 !!
<b>Aldehydes [ppm]</b>	2005:0496 !!	max. 10	max. 10	<= 10
<b>Esters [mL] = Saponification equivalent [% Na2O]</b>	2005:0496 !! DIN 55967	min. 8.0 max. 0.024	min. 8.0 max. 0.024	9.7 0.004
<b>Impurity A (diethylene glycol) (%)</b>	2.2.28	max. 0.1	max. 0.1	<= 0.1
<b>Any other impurities R(t) &lt; Glycerol (%)</b>	2.2.28	max. 0.1	max. 0.1	<= 0.1
<b>Sum of all impurities R(t) &gt; Glycerol (%)</b>	2.2.28	max. 0.5	max. 0.5	<= 0.5
<b>Halogenated compounds</b>	2005:0496 !! mod.	max. 35	max. 35	< 35 !!

<b>Sugar</b>	2005:0496 !!	negativ	negativ	negativ
<b>Chlorides [ppm]</b>	2.4.4 mod.	max. 10	max. 10	< 10 !!
<b>Heavy metals [ppm]</b>	2.4.8 mod.	max. 5	max. 5	< 5 !!
<b>Water content [%] (Fischer)</b>	2.5.12	max. 2.0	max. 2.0	0.16
<b>Sulfated ash [%]</b>	2.4.14	max. 0.01	max. 0.01	< 0.01
<b>Glycerol content chemically [%]</b>	2005:0496 !!	98.0 - 101.0	98 - 101	99.6
<b>Relative Density 20/20°C</b>	2.2.5	-	1.2630 - 1.2651	1.2640
<b>Colour, APHA</b>	ISO 2211	-	max. 5	< 2

<sup>1)</sup> Determined for each production batch.

<sup>2)</sup> Typical values: Statistical average of minimum 10 production batches.

!! indicate a modification of former revision

Ph.Eur. = European Pharmacopoeia, **5th Edition 2005**

Specified values according to the monography 0496 of the European Pharmacopoeia, **5th Edition 2005**

### **Additional Information:**

#### **Forms of delivery/packaging**

##### **Glycerin 99,5 % PF**

[SAP: 57578]

[SAP: 482895]

[SAP: 482897]

Road tanker

Drums of 250 kg net and

PE-Container of 1.200 kg net

##### **Glycerin 99,5 % PF - kosher**

[SAP: ]

[SAP: 664981]

Road tanker

PE-Container of 1.200 kg net

#### **Storage information**

Stored in sealed original packaging at 20°C the product is stable for approx. 1 year and for ½ year when stored in refined steel or aluminium tanks (our recommendation) at temperatures of max. 40°C and kept under nitrogen blanket. The shelf life may decrease at higher temperatures.

This specification agreement contains the entire and conclusive description of the product's properties.

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