

CERTIFICATE OF ANALYSIS

Product	GLYCERINE 99,5 PHARMACEUTICAL Ph. Eur. VEGETABLE
Chemical formula	C ₃ H ₈ O ₃
OH2059734	OH2059734
Packaging	IBC 1000 L
Quantity	9600 kg
Recipient	Kévés Béla Kft
Mfg date	03. 11. 2020
Exp date	03. 11. 2021
Date	18. 11. 2020

Feature	unit	Specification		Result	Test method
		min.	max.		
Physical characteristics					
Identyfikation A,C,D		Complies with		Pass	2012:04 96
Appearance of solution		Complies with		Pass	2.2.1/2.2 .2
Refractive index 20 °C		1,470	1,475	1,474	2.2.6
Glycerine content (phis.)	%	99,7	100,6	100,0	2.2.6
Density at 20 °C	g/cm ³	1,2603	-	1,262	2.2.5
Colour APHA		-	10,0	3	ISO 2211
Chemical characteristics					
Glycerine content (chem.)	%	99,5	101,0	99,71	2012:04 96
Acidity and alkality	ml	-	0,2	<0,2	2012:04 96
Aldehydes	ppm	-	10,0	<10,0	2012:04 96
Esters	ml	8,0	-	8,6	2012:04 96
Water content	%	-	0,5	0,0921	2.5.12



Feature	unit	Specification		Result	Test method
		min.	max.		
Sugar		Negative		Negative	2012:04 96
Chloride	ppm	-	10,0	<10,0	2.4.4
Sulfated ash	%	-	0,01	<0,01	2.4.14
Heavy metals	ppm	-	5,0	<5,0	2.4.8
Halogenated compounds	ppm	-	35,0	<35,0	2012:04 96
Impurity A, related substances					
Diethylenoglycol	%	-	0,1	Pass	2.2.28
Peaks R(t) < Glycerine	%	-	0,1	Pass	2.2.28
Peaks R(t) > Glycerine	%	-	0,5	Pass	2.2.28

We certify that the results are consistent with a certificate of the manufacturer

The certificate was created electronically and is valid without signature.

