

CERTIFICATE OF ANALYSIS

customer	Sergej Vogt Isolatech
product name	GLYCEROL VEGETABLE USP/FCC/EP/E422
IUPAC name	propane-1,2,3-triol
chemical formula	C3H8O3
other information	CAS: 56-81-5
packaging	bottle
amount	
batch number	AZ008297
mfg date	2024-08-06
exp date	2025-08-06

parameters	unit	specification	results
Assay	%	98.00 - 101.00	99,97
Identification (infrared)		pass	pass
Refractive index	.	1,470 - 1,474	1,473
Appearance of solution		clear, colourless	pass
Solubility		pass	pass
Acidity or alkalinity	ml 0,1N NaOH	max. 0.2	0,04
Aldehydes content	ppm	max. 10	<10
Ester content	ml 0,1N HCl	min. 8	8,84
Impurities and related substances (GC)		pass	pass
Peaks R(t)	%	max. 0,1	0,01
Peaks R(t)	%	max. 0,5	<0,5
DEG content	%	max. 0,1	<0,1
Water content	%	max.0,5	0,01
Density (20 °C)	g/cm ³	1,258 - 1,268	1,264
Density (25 °C)	g/cm ³	min. 1,257	1,262
Colour	APHA	max. 10	5
Free 3-MPCD	ppm	max. 0,05	<0,05
Fatty acids and esters as butyric acid	%	max. 0,1	<0,1
Halogenated compounds	ppm	max. 35	<35
Limit of Chlorinated compounds (as Cl)	ppm	max. 30	<30
Sugars		pass	pass
Chloride	ppm	max. 10	<10
Sulphate	ppm	max. 20	<20
Lead (Hg)	ppm	max. 2	<2
Arsenic (As)	ppm	max. 1	<1
Cadmium (Cd)	ppm	max. 1	<1
Mercury (Hg)	ppm	max. 1	<1
Sulphated ash	%	max. 0,01	<0,01
Acrolein, glucose and NH3 combinations		pass	pass
1,2,3-butantriol i 1,2,4-butantriol	%	max. 0,05	<0,05
Total viable aerobic count	cfu/g	max. 100	<100
Coliforms	cfu/g	max. 10	<10
Total molds & yeast count	cfu/g	max. 10	<10

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

The certificate was created electronically and is valid without signature.