



Certificate of Analysis

Glycerine acc. to EP USP 99,5 %

Vegetable Glycerine GMO free - kosher - halal

date 21/12/18 batch number 41852
 date of retest 12 Months restoring sample 41852
 weighing bill no.

Parameter	Dim		Limits EP/USP	VERBIO Specification	VERBIO Glycerine	Method
appearance and appearance of solution			meets test	meets test	meets test	EP 9.2/0496
glycerine content	%		98,0-101,0	>99,5	99,82	EP 9.2/0496
Identification A.C.D			meets test	meets test	meets test	EP 9.2/0496
impurity A and related substances			meets test	meets test	meets test	EP 9.2/2.2.28
impurity A (DEG)	%	max	0,1	0,1	<0,1	EP 9.2/2.2.28
any other impurities RT < glycerol	%	max	0,1	0,1	<0,1	EP 9.2/2.2.28
sum of all impurities RT > glycerol	%	max	0,5	0,5	<0,5	EP 9.2/2.2.28
water	%	max	2,0	0,1	0,05	EP 9.2/2.5.12
colour (APHA)				≤10	4	DIN EN ISO 6271
relative density 20 / 20 °C				>1,262	1,263	EN ISO 12185
refractive index n _D ²⁰			1,470-1,475	1,471-1,474	1,4730	EP 9.2/2.2.6
alkalinity or acidity	ml of 0,1 N NaOH	max	0,2	0,2	0,10	EP 9.2/0496
ester content	ml of 0,1 N HCl	min	8,0	8,0	8,75	EP 9.2/0496
chlorides	ppm	max	10	10	≤2,0	acc. DIN EN 14538
halogenated compounds	ppm	max	35	35	≤35	EP 9.2/0496
sugars			negative	negative	negative	EP 9.2/0496
sulphated ash		max	0,01	0,005	0,001	EP 9.2/2.4.14
aldehydes	ppm	max	10	10	≤5	EP 9.2/0496
Identification B (GC)			meets test	meets test	meets test	USP 40 / 621
organic volatile compounds			meets test	meets test	meets test	USP 40 / 467
diethylene glycol	%	max	0,1	0,1	<0,1	USP 40 / 621
ethylene glycol	%	max	0,1	0,1	<0,1	USP 40 / 621
individual impurities	%	max	0,1	0,1	<0,1	USP 40 / 621
total impurities	%	max	1,0	1,0	<1,0	USP 40 / 621
specific gravity 25 / 25 °C		min	1,249	1,249	1,260	USP 40 / 841 II
fatty acids and esters	ml	max	1,0	1,0	0,50	USP 40 / 541
limit of chlorinated compounds	% of Cl	max	0,003	0,003	<0,003	USP 40
sulfate (USP 40 / 221)	ppm	max	20	5	≤5	acc. DIN EN 14538
residue on ignition	mg	max	5	1	0,5	USP 40 / 281

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