Supplies for Candles Ltd
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Certificate Of Analysis

PRODUCT NAME & SKU: Glycerine TSK-LIQ051

Sample: **Refined glycerine, min 99.5 %, EP/USP grade, kosher, halal, pure rapeseed oil based, non-GMO, E422 food grade**

Einecs: **200-289-5** CAS: **56-81-5**
Taken from: 07F18A
Batch dated: 06-05-2024
Batch number: 2024191016F18A
Production date: 6-5-2024
Remarks: 0

Analysis	Unit	min	max	Result	Method of analysis
Appearance		Colourless		Colourless	European Pharmacopoeia
Appearance of solution		Clear		pass	European Pharmacopoeia
Smell		Absent		absent	European Pharmacopoeia
Esters	ml 0.1 m HCl-solution	8,0		9,35	European Pharmacopoeia
Color (APHA)	Hazen		10	8	ISO 6271
Water	% (m/m)		0,5	0,038	European Pharmacopoeia
Refractive index @ 20°C		1,471	1,474	1,474	European Pharmacopoeia
Density @ 20°C	g/cm³	1,260		1,261	European Pharmacopoeia
Acidity	ml 0.1 m NaOH-solution		0,2	0,1	European Pharmacopoeia
Aldehydes	mg/kg		10	Passes test	European Pharmacopoeia
Halogenated compounds	mg/kg		30	Passes test	European Pharmacopoeia
Chlorides	mg/kg		10	Passes test	European Pharmacopoeia
Sugars		Negative		Negative	European Pharmacopoeia
Acroleine, Glucose, Ammoniumcompounds		Negative		Negative	REG(EU) 231/2012 no E422
Assay	% (m/m)	99,5		99,8	European Pharmacopoeia
3-MCPD	*mg/kg*		*0,1*	*0,04*	*GC/MS*
Compliance with the items listed below is assured through regular monitoring analyses performed at an external lab.					
Identity A, B, C, D		*pass*			*European Pharmacopoeia*
Heavy metals calculated as Pb	*mg/kg*	*max 5*			*US Pharmacopoeia*
Arsenic	*mg/kg*	*max 0,1*			*DIN EN 15763*
Mercury	*mg/kg*	*max 0,1*			*SOP M 2567*
Cadmium	*mg/kg*	*max 0,1*			*DIN EN 15763*
Lead	*mg/kg*	*max 0,1*			*DIN EN 15763*
Nickel	*mg/kg*	*max 20*			*DIN EN 15763*
Sodium	*% (m/m)*	*max 0,1*			*DIN EN 15510*
Potassium	*% (m/m)*	*max 0,1*			*DIN EN 15510*
Sulfates	*mg/kg*	*max 20*			*US Pharmacopoeia*
Sulphated ash	*% (m/m)*	*max 0,01*			*European Pharmacopoeia*
Impurity A (DEG)	*% (m/m)*	*max 0,1*			*European Pharmacopoeia*
Any other impurity retention time less Glyc	*% (m/m)*	*max 0,1*			*European Pharmacopoeia*
Total of all impurities retention time greater Glyc	*% (m/m)*	*max 0,5*			*European Pharmacopoeia*
Butanetriols	*% (m/m)*	*max 0,2*			*GC/MS*
Acroleine	*mg/kg*	*max 3*			*REG(EU) 231/2012 no E422*
Fatty acids and esters	*%*	*max 0,1*			*Calculated as butyric acid*