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Certificate of Analysis

Product Name:	MEKIROL VG995
MKR Reference:	POR05974-11
Order Number:	815952
Lot Number:	ER85632757
Delivery Date:	04/06/2019
Quantity:	26,940kg
Date of Manufacture:	May 2019
Expiry Date:	May 2021

Analysis

Test Description	Specification	Result
Glycerine Assay E422 and EP (% m/m):	99.5 – 101.0 mln	99.82
Acrolein formation on heating E422 (Id A):	Complies	Complies
Specific gravity (25/25 deg C) E422 (Id B):	1.257 mln	1.261
Refractive Index at 20 deg C E422 and EP (Id C):	1.471 – 1.474	1.474
Water, Karl Fischer EP (%):	0.5 max	0.14
Sulphated Ash E422 and EP (%):	0.01 max	<0.01
Colour APHA:	10 max	2.5
Butanetriols E422 (%):	0.2 max	Complies
Acroleine, Glucose, Ammonium Compounds E422:	Complies	Complies
3-MCPD E422 (%):	Complies	Complies
Fatty Acids and Ester E422 (as Butyric Acid) (%):	0.1 max	Complies
Chlorinated Compounds E422 (ppm):	30 max	Complies
Arsenic E422 (mg/kg):	3 max	Complies
Lead E422 (mg/kg):	2 max	Complies
Mercury E422 (mg/kg):	1 max	Complies
Cadmium E422 (mg/kg):	1 max	Complies
Heavy Metals E422 and EP (ppm):	5 max	Complies
Identification A, B, C and D EP:	Complies	Complies
Appearance of solution EP:	Complies	Complies
Acidity and Alkalinity EP (ml 0.1M NaOH):	0.2 max	Complies
Aldehydes EP (ppm):	10 max	Complies

Esters EP (ml 0.1M HCl):	8.0 min	>8.0
Impurity A and Related Substances EP:	Complies	Complies
Halogenated Compounds EP (ppm):	35 max	<30
Sugars EP:	Complies	Complies
Chlorides EP (ppm):	10 Max	Complies

*Manufactured from vegetable oil. Complies with the requirements of current editions for Glycerine of EP,
EU Regulations 231/2012 (Glycerol E422), 68/2013 and Codex Alimentarius.*

*The results given above are based on analysis carried out by the manufacturer. Some parameters not tested each batch and
determined statistically.*

*Receipt of this certificate does not free the customer from carrying out their own inspection and testing to verify the product is
suitable for use.*