

Gracefruit Ltd  
 209 Glasgow Road  
 Longcroft  
 FK4 1QQ

Product -- Glycerine

Order Number:	813252
Lot Number:	201825207F18A
Delivery Date:	20.06.18
Quantity:	26960kg
Date of Manufacture:	06/2018
Expiry Date:	06/2020
Seal Numbers	07170761 TILL 07170766

### Analysis

Test Description	Specification	Result
Appearance	Complies (BP/EP Method)	Colourless
Appearance of Solution	Clear	Pass
Odour	Absent	Absent
Esters (ml 0.1 m HCL Solution)	8.0 min	8.79
Colour, APHA (Hazen)	10 max	6
Water, Karl Fischer, (%)	0.5 max	0.029
Refractive Index @ 20°C	1.471– 1.474	1.472
Density@ 20°C (g/cm3)	1.260 Min	1.261
Acidity/Alkalinity (ml 0.1 m NaOH Solution)	0.2 max	0.05
Aldehydes (mg/kg)	10 max	Meets Spec
Halogenated Compounds (mg/kg)	30 max	Meets Spec
Chlorides (mg/kg)	10 max	Meets Spec
Sugars	Negative	Negative
Acroleine, Glucose, Ammonium Compounds	Negative	Negative
Glycerine Assay(% m/m)	99.5 min	99.8
Impurity A, (% m/m)	0.1	<0.1
Sulphated Ash(% m/m)	0.1	<0.01

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

Name:

C.D. Johnson

Signature:

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