CHEMICAL SUPPLIERS - SOUTH AFRICA (CS-SA)

B-BBEE LEVEL I CONTRIBUTOR: 135% PROCUREMENT RECOGNITION

Reg. Number: 2024/088122/07 Tax Number: 9373596221 Tel: +27 87 265 4510

CERTIFICATE OF ANALYSIS

As confirmed by Supplier Agreement

Descriptions of Goods

: GLYCERINE USP

Batch No

: 02124U

Manufacture Date

: 13/12/2023

Expiry Date

: 12/12/2025

TEST PARAMETER	UNIT	ANALYSIS METHOD	SPECIFICATION	RESULT (S)
Assay (% Glycerine on anhydrous basis)	%	USP	2 99,50	89,88
Specific Gravity @ 25° C	-	DENSITOMETER	b 1,2668	1,2817
Moisture	96	KARL FISCHER	≤ 0,500	0.044
Colour Apha (Hazen Scale)	-	ISO 2211(1973)	s 10,0	<2.5
Colour (Ferrio Chioride)	mL.	USP	≤ 0,40	<0.48
Diethylene Glycol (Deg) Impurities	1 %	USP	s 0,10	<0.10
Identification By GC	-	USP	PASS AS GLYCERINE	Pass as Glycerine
Individual Impurities	%	USP	\$ 0,10	<0.10
Sum Of All Impurities	%	USP	≤ 1,00	<1.00
Fatty Acid And Ester (ml of 0.5N NaOH)	mL	USP	\$ 1.00	0.36
Heavy Metals, Pb	ppm	USP	≤ 5	<5
Arsenic (as As)	ppm	IN-HOUSE METHOD	≤ 1.5	<1,5
Limit Of Chlorinated Compounds	ppm	USP	\$ 30	<30
Sulfiste	ppm	USP	€ 20	<20
Chlorides	ppm	USP	≤ 10	<10
Residue On Ignition	%	USP	≤ 0,01	<0,01
Organic Volatile Material	-	USP	PASS	Pass
Identification A - Infrared absorption	-	USP	PASS	Pass
Identification B - Limit of Ethylene Glycol	%	USP	s 0.10	<0.10

REMARKS:

ND Not Detected

The test parameter is under scope of SAMM accreditation.

The test parameter is performed by third party accredited laboratory.

< Less than

Less than or equal

Greater than or equal

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