



<b>CUSTOMER NAME</b>	RIERDEN CHEMICAL AND TRADING	<b>SPECS CODE</b>	RIEGLYUE
<b>MATERIAL NAME</b>	GLYCERINE 99.7% (USP)		
<b>MATERIAL DESCRIPTION</b>	GLYCERINE 99.7% (USP)	<b>ISSUE NO.</b>	1.04
<b>REFERENCES</b>	N/A		

PACKAGING TYPES					
DRUMS	√	BAGS		BULK	

TEST PARAMETER	UNITS	TEST METHOD	LIMITS	
			MIN	MAX
Specific Gravity (25/25°C)	%	USP-NF 2024 / USP 43	1.2612	-
Color APHA	APHA	AOCS Ea 9-65	-	5
Ash (Residue on ignition)	%	USP-NF 2024 / USP 43	-	0.01
Sulfate (S)	ppm	USP-NF 2024 / USP 43	-	20
Chloride (Cl)	ppm	USP-NF 2024 / USP 43	-	10
Heavy Metal	ppm	USP-NF 2024 / USP 43	-	5
Chlorinated compounds	ppm	USP-NF 2024 / USP 43	-	30
Fatty Acids & Ester (0.5N NaOH)	ml	USP-NF 2024 / USP 43	-	1
Assay (% Glycerine on Anhydrous Basis)	%	USP-NF 2024 / USP 43	99.0	101.0
Assay (% Glycerine on specific gravity (25/25°C))	%	USP-NF 2024 / USP 43	99.7	-
Moisture	%	USP-NF 2024 / USP 43 (Method 921-1a)	-	0.3
Related Compounds(Total Impurities)	%	USP-NF 2024 / USP 43	-	1
Indvl. Impurities(Excl solvent peak&DEG)	%	USP-NF 2024 / USP 43	-	0.1
Identification A (IR)	-	USP-NF 2024 / USP 43	Meet test requirement	
Identification B (Diethylene Glycol)	%	USP-NF 2024 / USP 43	-	0.1
Identification B (Ethylene Glycol)	%	USP-NF 2024 / USP 43	-	0.1
Identification C (RT of Glycerine's Peak)	-	USP-NF 2024 / USP 43	Meet test requirement	
Odor	-	In house Method	Typical Glycerine odour	
Residual Solvents	-	USP/NF, General Chapter <467>	Meet test requirement	
Organic Volatile Impurities	-	USP 31	Meet test requirement	
Color (Ferric Chloride)	-	USP-NF 2024 / USP 43	Meet test requirement	

USAGE/ APPLICATION/ REQUIREMENT (if any)
Specifications is applied for RSPO MB/ MSPO MB and non-RSPO / MSPO Material. All fatty acid range and glycerine produced by Evyap Sabun Malaysia Sdn. Bhd. are Kosher Certified.