

## Refined Glycerine Product

TEST ITEM	UNIT	TEST METHOD	SPECIFICATION
Appearance	-	Visual	Transparent
Glycerine content	%	USP 43	99.7 min.
Color (Hazen)	-	ASTM D1209	10 max.
Specific Gravity (25°C)	-	USP 43	1.2490 min.
Fatty Acid & Esters (ml, 0.5N NaOH)	ml	USP 43	1.0 max.
Water content	%	USP 43	0.3 max.
Limit of Chloride	mg/kg	USP 43	10 max.
Limit of Sulfate	mg/kg	USP 43	20 max.
Limit of Chlorinated compounds	mg/kg	USP 43	30 max.
Heavy Metal (as Pb)	mg/kg	USP <231>	5 max.
Arsenic (As)	mg/kg	AOAC (2019) 999.10	1 max.
Iron (Fe)	mg/kg	AOAC (2019) 999.10	2 max.
Sum of glycerol monoacetate isomers	mg/kg	GC	-
Residue on Ignition	%	USP 41	0.01 max.
<b>Limit of Diethylene Glycol and Ethylene Glycol</b>			
Diethylene Glycol	%wt	USP 41	0.1 max.
Ethylene Glycol	%wt	USP 41	0.1 max.
<b>Organic Impurities</b>			
Individual impurities	%wt	USP 41	0.1 max.
Total Impurity	%wt	USP 41	1 max.

### Remarks :

1. Reported results refer to submitted sample(s) only.
2. This report shall not be reproduced, except in full, without prior approval of Laboratory.
3. The result of these product were passed. (Reference from specification of USP-NF/ EP/JP/BP)