



P. O. Box 2427  
Aqaba 77110 Jordan  
CR 1703010701  
Telephone (03) 2017101  
Telefax (03) 2017100

### Certificate of Analysis

Product : Ethanol 99.9%  
Manufacturing Date : October 2025  
Expiry Date : Three Years  
Batch No. : 27039670  
Origin : South Africa

Test Description	Method	Specification	Result
Acidity (As CH <sub>3</sub> COOH) mg/Kg	ASTM D 1613	30 Max	7
Appearance	ASTM E2680	Clear and Bright	Pass
Carbonyls (As Acetaldehydes) mg/kg	ASTM E 411 (Mod -Sasol 6180)	20 Max	3
Esters As (Ethyl Acetate) mg/kg	BS 6392 Part 8	50 Max	22
Higher Alcohols (as Iso-Butanol)mg/Kg	GC	10 Max	<1
Water mass %	INTERTEK /DBN/IHM/001	0.15 MAX	0.01
Colour PT-CO	ASTM D 1209	2.5 Max	2.5
Benzene, ppm	LABCHEM	2 Max	0.88
Density @ 20°C g/ml	ASTM D 4052	0.789 Typical	0.7895
Absorbance @ 240 nm		0.40 Max	0.34
Absorbance between 250-260 nm		0.30 Max	0.21
Absorbance between 270-340 nm		0.10 Max	0.06
Methanol, mg/kg	GC	20 Max	<10
Acetaldehyde mg/kg	GC	10 Max	< 5
Ethanol Volume %	GC	99.9 Min	99.9



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