Fisher Scientific UK Ltd.
Bishop Meadow Road
Loughborough,
LE11 5RG, United Kingdom

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global Certificate Number. QMS42099

Catalogue Number	P/7481
Lot Number	2172339
Description	Propan-1-ol AR For analysis
CAS Number	71-23-8
Quality Test/Release Date	18/Oct/2021
Expiry Phrase	Use within 5 yrs opening
Country of Origin	United Kingdom
Declaration of Origin	Synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Acidity/alkalinity (meq/g)	meq/g	<= 0.0002	0.00005
Assay (GC)	%	>= 99.5	99.98
Calcium (Ca)	ppm	<= 0.2	<0.05
Chemical form		Mobile liquid	Mobile liquid
Colour	APHA	<= 10	<5
Copper (Cu)	ppm	<= 0.02	<0.01
Ethanol	%	<= 0.01	None Detected
Iron (Fe)	ppm	<= 0.1	<0.02
Lead (Pb)	ppm	<= 0.02	<0.005
Magnesium (Mg)	ppm	<= 0.1	<0.01
Methanol	%	<= 0.005	0.00007
Potassium (K)	ppm	<= 0.2	<0.02
Propan-2-ol	%	<= 0.005	0.0005
Residue after evaporation (ppm)	ppm	<= 10	None Detected
Sodium (Na)	ppm	<= 1	<0.2
Substances darkened by H2SO4 (APHA)	APHA	<= 10	<5
Total phosphorus (P)	ppm	<= 0.1	<0.02
Total silicon (Si)	ppm	<= 0.05	<0.02
Total sulfur (S)	ppm	<= 0.5	<0.02
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.1	0.03
Zinc (Zn)	ppm	<= 0.1	<0.02

A. Ganatra

Ashok Ganatra
Supervisor, QC

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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