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	T/3160
Lot Number	2167972
Description	Triethanolamine AR For analysis
CAS Number	102-71-6
Quality Test/Release Date	28/Jan/2021
Expiry Phrase	Use witihn 3 years of opening
Country of Origin	Belgium

Result Name	Units	Specifications	Test Value
Assay (GC)	%	>= 99	99.03
Calcium (Ca)	ppm	<= 2	<0.05
Chemical form		Mobile liquid	Mobile liquid
Chloride (Cl) (%)	%	<= 0.0001	<0.0001
Copper (Cu)	ppm	<= 0.5	<0.05
Diethanolamine	%	<= 0.5	0.0243
Ethanolamine	%	<= 0.1	0.0031
Iron (Fe)	ppm	<= 1	<0.5
Lead (Pb)	ppm	<= 0.5	<0.005
Magnesium (Mg)	ppm	<= 1	<0.05
Potassium (K)	ppm	<= 5	<0.05
Residue after ignition	%	<= 0.005	None Detected
Sodium (Na)	ppm	<= 10	<0.5
Total phosphorus (P)	ppm	<= 0.5	<0.05
Total silicon (Si)	ppm	<= 5	<0.5
Total sulfur (S)	ppm	<= 1	<0.2
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.2	0.13
Zinc (Zn)	ppm	<= 0.5	<0.05



Ashok Ganatra
Supervisor, QC

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.

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.