

## 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	11336
Lot Number	2108203
Description	1,2-Dichloroethane,99.8+%,extra pure AR For analysis
CAS Number	107-06-2
Quality Test/Release Date	23/Dec/2021
Expiry Phrase	Use within 3 years of opening
Country of Origin	Germany
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
Assay (GC)	%	>= 99.8	99.99
Chemical form		Mobile liquid	Mobile liquid
Colour	APHA	<= 25	<10
Free acid (HCl)	%	<= 0.01	0.0004
Infrared Spectrum		Must be 'Pass'	Pass
Refractive index @ 20C, 589nm		>= 1.4440 and <= 1.4460	1.444
Residue on evaporation (%)	%	<= 0.005	0.0003
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.02	0.004

*A. Ganatra*

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.