

## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	22087		
Lot Number	A0468421 1,2-Propanediol,99+%,for analysis 57-55-6 03/Jan/2025 03/Jan/2028 GERMANY		
Description			
CAS Number			
Quality Test/Release Date			
Suggested retest date			
Country of Origin			
Declaration of Origin	synthetic		
Result Name	Units	Specifications	Test Value
Appearance (Form)		Clear viscous liquid	Clear viscous liquid
Color scale	APHA	=<10	10
Infrared spectrum		Conforms	Conforms
GC	%	>=99	99.9
Water	%	=<0.2 (Coulometric)	=<0.1 (Coulometric)
Refractive index		1.4310 to 1.4330 (20°C, 589 nm)	1.4329 (20°C, 589 nm)
Chloride (Cl)	ppm	=<50	=<1
Sulfate (SO4)	ppm	=<20	=<10
Lead (Pb)	ppm	=<0.1	0.1
Copper (Cu)	ppm	=<0.1	0.1
Cadmium (Cd)	ppm	=<0.1	=<0.1
Zinc (Zn)	ppm	=<0.5	=<0.1
Iron (Fe)	ppm	=<0.5	=<0.5
Acidity (CH3COOH)	%	=<0.005	=<0.005

Geert Torfs 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 and development use only. 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.