

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 29560 Lot Number A0468051

Description Glycerol,for analysis,86-88% wt% aqueous solution

CAS Number 56-81-5
Quality Test/Release Date 09/Jan/2025
Suggested retest date 09/Jan/2028
Country of Origin BELGIUM
Declaration of Origin synthetic

BSE/TSE synthetically made

Result Name	Units	Specifications	Test Value
Appearance (Color)		Clear colorless	Clear colorless
Appearance (Form)		Viscous liquid	Viscous liquid
Infrared spectrum		Conforms	Conforms
Titration Iodometric	%	86.0 to 88.0	86.1
Water	%	12.0 to 14.0 (K.F.)	12.4 (K.F.)
Heavy metals (as Pb)	ppm	=<1	=<1
Sulfated ash	%	=<0.005	=<0.005
Free acid (CH3COOH)	%	=<0.002	=<0.002
Refractive index		1.4520 to 1.4550 (20°C, 589 nm)	1.4527 (20°C, 589 nm)
Density	g/ml	(20/4°C) 1.224 to 1.232	(20/4°C) 1.23
Arsenic (As)	ppm	=<0.5	=<0.5
Chloride (CI)	ppm	=<1	=<1
Sulfate (SO4)	ppm	=<5	=<5
Ammonium (NH4)	ppm	=<5	=<5
Iron (Fe)	ppm	=<5	=<0.5
Free alkali (NH3)	%	=<0.0005	=<0.0005
Substance darkened by H2SO4		Passes test	Passes test
Fatty acid esters	%	=<0.05	=<0.05
Reducing substances	%	=<0.003	=<0.003

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.