

### 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 G/0650  
Lot Number 2541092  
Description Glycerol AR For analysis  
CAS Number 56-81-5  
Quality Test/Release Date 16/Jun/2025  
Expiry Phrase Use within 5 yrs of opening  
Country of Origin Germany

Result Name	Units	Specifications	Test Value
Assay	%	>= 99	99.99
Calcium (Ca)	ppm	<= 5	<0.5
Chemical form		Viscous liquid	Viscous liquid
Chloride (Cl) (%)	%	<= 0.0005	<0.0005
Colour	APHA	<= 10	<5
Copper (Cu)	ppm	<= 0.5	<0.05
Esters of fatty acids (%)	%	<= 0.08	<0.08
Fatty acids		Must be 'Pass'	Pass
IR		Must be 'Pass'	Pass
Iron (Fe)	ppm	<= 1	<0.5
Lead (Pb)	ppm	<= 0.5	<0.05
Magnesium (Mg)	ppm	<= 2	<0.2
Potassium (K)	ppm	<= 5	<0.2
Reducing substances (Pass/Fail)		Must be 'Pass'	Pass
Residue after ignition	%	<= 0.005	None Detected
Sodium (Na)	ppm	<= 20	<0.5
Total phosphorus (P)	ppm	<= 2	<0.5
Total silicon (Si)	ppm	<= 2	<0.5
Total sulfur (S)	ppm	<= 5	<0.5
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.5	0.1
Zinc (Zn)	ppm	<= 2	<0.2
pH (10% aq. soln.)		>= 6 and <= 8	7.825

**Additional Information** Meets the current analytical specification of BP



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.