

## **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 22333 Lot Number A0470202

Description Hydrofluoric acid, for analysis, 48 to 51% solution in water

CAS Number 7664-39-3
Quality Test/Release Date 20/Feb/2025
Suggested retest date 20/Feb/2028
Country of Origin SPAIN
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	
Appearance (Color)		Clear colorless	Clear colorless	
Appearance (Form)		Solution	Solution	
Titration with NaOH	%	48 to 51	50	
Residue after ignition	%	=<0.0005	=<0.0005	
Fluorosilicic acid	%	=<0.01 (H2SiF6)	=<0.0005 (H2SiF6)	
Chloride (CI)		=<5 ppm	=<0.3 ppm	
Sulfates	ppm	=<5 (SO4)	=<0.5 (SO4)	
Phosphates	ppm	=<1 (PO4)	=<0.3 (PO4)	
Iron (Fe)	ppm	=<1	=<0.001	
Copper (Cu)	ppm	=<0.1	=<0.001	
Arsenic (As)	ppm	=<0.05	=<0.001	
Lead (Pb)	ppm	=<0.05	=<0.001	

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.