



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 42588 Lot Number 2538733

Description 1-Chlorobutane, 99.8%, for HPLC HPLC HPLC

CAS Number 109-69-3
Quality Test/Release Date 27/May/2025

Expiry Phrase Use within 5 years of opening

Country of Origin Germany

Result Name	Units	Specifications	Test Value	
Absorbance @ 230 nm	A.U.	<= 0.2	0.128	
Absorbance @ 240 nm	A.U.	<= 0.05	0.035	
Absorbance @ 250 nm	A.U.	<= 0.01	0.01	
Acidity/alkalinity (meq/g)	meq/g	<= 0.0003	0.0001	
Assay (GC)	%	>= 99.7	99.94	
Chemical form		Mobile liquid	Mobile liquid	
Colour	APHA	<= 10	<5	
Residue after evaporation (ppm)	ppm	<= 2	None Detected	
Visual colour		Clear colourless	Clear colourless	
Water	%	<= 0.02	0.017	

Additional Information Filtered to 0.2 micron

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.