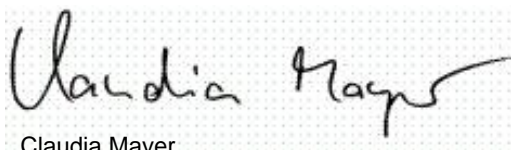


Certificate of Analysis

Product Name:	Chloroform puriss. p.a., reag. ISO, reag. Ph. Eur., 99.0-99.4% (GC)
Product Number:	32211
Batch Number:	STBL2131
CAS Number:	67-66-3
Formula:	CHCl ₃
Formula Weight:	119.38
Quality Release Date:	08 SEP 2023
Recommended Retest Date:	JUL 2025

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	LIQUID	LIQUID
TITRATABLE ACID	FREE ACID: ≤ 0.00005 % (AS HCL)	< 0.00001 %
PURITY (GC AREA %)	≥ 99.0 %	99.3 %
REMARKS ON GC	0.6 - 1.0 % ETOH ≤ 0.01 % TETRACHLOROMETHANE ≤ 0.01 % TRICHLOROETHENE ≤ 0.01 % TETRACHLOROETHENE ≤ 0.03 % DICHLOROMETHANE	0.7 % < 0.01 % < 0.01 % < 0.01 % < 0.01 %
SPECIFIC GRAVITY	1.476 - 1.483 AT 20 DEG C	1.480
BOILING POINT	60 - 62 DEG C	60 - 62 DEG C
WATER (COULOMETR.)	≤ 0.01 %	< 0.01 %
RESIDUE (EVAPORATION)	≤ 0.0005 %	< 0.0001 %
ALDEHYDES	≤ 0.005 % (AS ACETONE)	< 0.005 %
FREE CHLORINE	≤ 0.00001 %	< 0.00001 %
ALUMINIUM (ICP)	≤ 0.50 PPM	< 0.50 PPM
BARIUM (ICP)	≤ 0.10 PPM	< 0.10 PPM
BORON (ICP)	≤ 0.02 PPM	< 0.02 PPM
CALCIUM (ICP)	≤ 0.50 PPM	< 0.50 PPM
CADMIUM (ICP)	≤ 0.05 PPM	< 0.05 PPM
COBALT (ICP)	≤ 0.02 PPM	< 0.02 PPM
CHROMIUM (ICP)	≤ 0.02 PPM	< 0.02 PPM
COPPER (ICP)	≤ 0.02 PPM	< 0.02 PPM
IRON (ICP)	≤ 0.10 PPM	< 0.10 PPM
MAGNESIUM (ICP)	≤ 0.10 PPM	< 0.10 PPM
MANGANESE (ICP)	≤ 0.02 PPM	< 0.02 PPM
NICKEL (ICP)	≤ 0.02 PPM	< 0.02 PPM
LEAD (ICP)	≤ 0.05 PPM	< 0.05 PPM

TIN (ICP)	≤ 0.10 PPM	< 0.10 PPM
ZINC (ICP)	≤ 0.10 PPM	< 0.10 PPM
CHLORIDE (CL)	≤ 0.0001 %	< 0.0001 %
SUBSTANCES DARK BY H₂SO₄	PASSES TEST	PASS
CARBONYL COMPOUNDS	≤ 0.005 % (AS CO)	< 0.005 %
REMARKS	COMPLIES FOR SUITABILITY OF DETERMINATION WITH DITHIZONE	



Claudia Mayer

Manager Quality Control

Steinheim, Germany

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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