

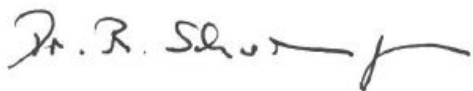
Certificate of Analysis

Product Name: Acetyl chloride
puriss. p.a., >= 99.0 % T
Product Number: 00990
Batch Number: BCCC8584
Brand: Sigma-Aldrich
CAS Number: 75-36-5
Formula: CH₃COCl
Formula Weight: 78.50
Quality Release Date: 20 FEB 2020
Recommended Retest Date: AUG 2022

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	LIQUID	LIQUID
TITRATION	99.0 - 101.0 %	99.4 %
TITRATION (METHOD)	-	CARBOXYLIC ACID CHLORIDE METHOD
REFRACTIVE INDEX N20/D	1.388 - 1.390	1.389
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
ALUMINIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
BARIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
BISMUTH (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
CALCIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
CADMIUM (ICP)	≤ 0.05 MG/KG	< 0.05 MG/KG
COBALT (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
CHROMIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
COPPER (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
IRON (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
POTASSIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
LITHIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
MAGNESIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
MANGANESE (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
MOLYBDENUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
SODIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
NICKEL (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
LEAD (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG

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STRONTIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
ZINC (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland

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.