

Certificate of Analysis

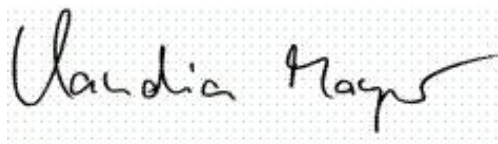
Product Name: Isobutyric acid
puriss. p.a., >= 99.5 %
Product Number: 58360
Batch Number: STBF8413V
Brand: Sigma-Aldrich
CAS Number: 79-31-2
Formula: (CH₃)₂CHCO₂H
Formula Weight: 88.11
Quality Release Date: 22 SEP 2015
Date retested: 20 JAN 2020
Recommended Retest Date: JUL 2024

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	LIQUID	LIQUID
PURITY (GC AREA %)	≥ 99.50 %	99.73 %
REFRACTIVE INDEX N _{20/D}	1.392 - 1.394	1.393
WATER	≤ 0.2 %	< 0.1 %
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)	≤ 0.02 MG/KG	< 0.02 MG/KG
COPPER (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
IRON (ICP)	≤ 0.1 MG/KG	< 0.1 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)	≤ 2 MG/KG	< 2 MG/KG
NICKEL (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
LEAD (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
STRONTIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG

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ZINC (ICP) ≤ 0.1 MG/KG

< 0.1 MG/KG



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.