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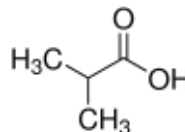
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Isobutyric acid - natural, ≥99%, FCC, FG

Product Number: W222216
Batch Number: MKBT5025V
Brand: ALDRICH
CAS Number: 79-31-2
MDL Number: MFCD00002658
Formula: C4H8O2
Formula Weight: 88.11 g/mol
Quality Release Date: 19 JAN 2015
Expiration Date: DEC 2019



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Refractive index at 20 °C	1.392 - 1.395	1.393
Infrared Spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	99.0 - 101.1 %	100.5 %
Specific Gravity	0.944 - 0.948	0.945
Reducing Substances	Pass	Pass
Arsenic (As)	≤ 3.0 ppm	< 1.0 ppm
Cadmium (Cd)	≤ 1.0 ppm	< 1.0 ppm
Mercury (Hg)	≤ 1.0 ppm	< 1.0 ppm
Lead (Pb)	≤ 10.0 ppm	< 1.0 ppm
Expiration Date Period	-----	-----
5 Years		

Ali Ataei, Manager
 Quality Control
 Milwaukee, WI US

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.