

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

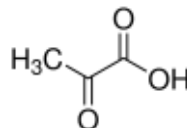
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Pyruvic acid - ≥97%, FG

Product Number: W297003
Batch Number: MKCH5988
Brand: ALDRICH
CAS Number: 127-17-3
MDL Number: MFCD00002585
Formula: C3H4O3
Formula Weight: 88.06 g/mol
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 24 OCT 2018
Expiration Date: OCT 2020



Test	Specification	Result
Appearance (Color)	Colorless to Light Green-Yellow to Light Yellow	Light Yellow
Appearance (Form)	Liquid	Liquid
Refractive index at 20 °C	1.425 - 1.431	1.431
Infrared Spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	97.0 - 103.0 %	98.9 %
Specific Gravity (at 25°C)	1.260 - 1.280	1.264
Arsenic (As)	≤ 3 ppm	< 1 ppm
Cadmium (Cd)	≤ 1 ppm	< 1 ppm
Mercury (Hg)	≤ 1 ppm	< 1 ppm
Lead (Pb)	≤ 10 ppm	< 1 ppm
Expiration Date Period 2 Years	-----	-----

Michael Grady, 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.