

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

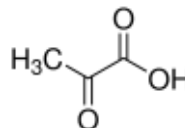
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Pyruvic acid - natural, ≥80%

Product Number: W297070
Batch Number: MKCF5062
 Brand: ALDRICH
 CAS Number: 127-17-3
 MDL Number: MFCD00002585
 Formula: C3H4O3
 Formula Weight: 88.06 g/mol
 Quality Release Date: 15 DEC 2017
 Expiration Date: NOV 2022



Test	Specification	Result
Appearance (Color)	Colorless to Yellow and Faint Orange to Orange and Faint Brown to Light Brown	Colorless
Appearance (Form)	Liquid	Liquid
Refractive index at 20 °C	1.425 - 1.450	1.430
Infrared Spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	≥ 80.0 %	100.1 %
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	-----	-----
5 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.