



Certificate of Analysis

α -Ketoglutaric Acid

Catalog Number: KA1002
Lot Number: 0903905
CAS Number: 328-50-7
Synonym(s): 2-Oxoglutaric acid, 2-Oxopentanedioic acid
Linear Formula: C₅H₆O₅
Molecular Weight: 146.10
Storage: 2°C – 8°C
Date of Manufacture: April 15, 2019
Retest Date: April 14, 2024

Test	Specification	Result
Appearance	White to off-white crystalline powder	Conforms
Purity	≥ 96.0%	99.7%
Identification (FTIR)	To match reference	Conforms
Melting Point	105.0°C – 115.0°C	113°C – 115°C
Transmittance	≥ 95.0%	98.4%
Moisture (LOD)	≤ 1.0%	0.3%
Residue on Ignition	≤ 0.2%	0.2%
Ammonium	≤ 200ppm	< 200ppm
Chloride	≤ 200ppm	< 200ppm
Sulfate	≤ 200ppm	< 200ppm
Heavy Metals	≤ 10ppm	< 10ppm
Iron	≤ 30ppm	< 30ppm
Mesh Size	95% thru 30mesh	Conforms

Approved by:

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Date: September 3, 2019