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# Certificate of Analysis

<b>Product</b>	<b>62616 - Isopropanol (IPA) VLSI Semiconductor Grade, 99.8% - [67-63-0]</b>
<b>Batch No</b>	<b>8169660</b>
<b>Analysis Date</b>	03-Mar-2024
<b>Date of Manufacture</b>	March 2024
<b>Expiry Date/Re-Test Date</b>	March 2029
<b>Molecular Formula</b>	C3H8O
<b>Molecular Weight</b>	60.10

Test Parameters	Standards	Actual Results
Appearance (Clarity)	Clear	Clear
Appearance (Colour)	Colourless	Colourless
Appearance (Form)	Liquid	Liquid
Particles > 0.5 µm	max. 250 P/ml	97 P/ml
Assay (GC)	min. 99.8%	99.95%
Density (g/ml) @ 20°C	0.785-0.787	0.785
Refractive Index (20°C)	1.377-1.378	1.377
Boiling Range	81-83°C	81-83°C
Non Volatile Matter	max. 0.0005%	0.0002%
Acidity (C2H5COOH)	max. 0.001%	0.001%
Chloride (Cl)	max. 0.0001%	Passes
Sulphate (SO4)	max. 0.0001%	Passes
Acetone (GC)	max. 0.01%	Not detected
Water (KF)	max. 0.05%	0.05%
Silver (Ag)	max. 0.01 ppm	< 0.005 ppm
Aluminium (Al)	max. 0.05 ppm	< 0.005 ppm
Arsenic (As)	max. 0.01 ppm	< 0.005 ppm
Gold (Au)	max. 0.02 ppm	< 0.005 ppm
Boron (B)	max. 0.01 ppm	< 0.005 ppm
Barium (Ba)	max. 0.02 ppm	< 0.005 ppm
Beryllium (Be)	max. 0.01 ppm	< 0.005 ppm
Bismuth (Bi)	max. 0.02 ppm	< 0.005 ppm
Calcium (Ca)	max. 0.05 ppm	< 0.005 ppm
Cadmium (Cd)	max. 0.01 ppm	< 0.005 ppm
Cobalt (Co)	max. 0.01 ppm	< 0.005 ppm
Chromium (Cr)	max. 0.01 ppm	< 0.005 ppm
Copper (Cu)	max. 0.01 ppm	< 0.005 ppm

FRM/82/11/2/62616 Rev No. 1 Date 15/02/2023

Prepared by Ashish

In compliance with the standard specifications of SRL

Plant Site 1 : D-88/2, MIDC, Turbhe – 400 705, New Mumbai, India

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1/2

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**Molecular Formula** C3H8O  
**Molecular Weight** 60.10

Test Parameters	Standards	Actual Results
Iron (Fe)	max. 0.05 ppm	< 0.005 ppm
Gallium (Ga)	max. 0.01 ppm	< 0.005 ppm
Indium (In)	max. 0.01 ppm	< 0.005 ppm
Potassium (K)	max. 0.02 ppm	< 0.005 ppm
Lithium (Li)	max. 0.01 ppm	< 0.005 ppm
Magnesium (Mg)	max. 0.02 ppm	< 0.005 ppm
Manganese (Mn)	max. 0.01 ppm	< 0.005 ppm
Molybdenum (Mo)	max. 0.01 ppm	< 0.005 ppm
Sodium (Na)	max. 0.1 ppm	< 0.005 ppm
Nickel (Ni)	max. 0.01 ppm	< 0.005 ppm
Lead (Pb)	max. 0.01 ppm	< 0.005 ppm
Platinum (Pt)	max. 0.02 ppm	< 0.005 ppm
Antimony (Sb)	max. 0.01ppm	< 0.005 ppm
Tin (Sn)	max. 0.02ppm	< 0.005 ppm
Strontium (Sr)	max. 0.01ppm	< 0.005 ppm
Titanium (Ti)	max. 0.01ppm	< 0.005 ppm
Thallium (Tl)	max. 0.01 ppm	< 0.005 ppm
Vanadium (V)	max. 0.01 ppm	< 0.005 ppm
Zinc (Zn)	max. 0.02 ppm	< 0.005 ppm
Zirconium (Zr)	max. 0.01 ppm	< 0.005 ppm

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2/2

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