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## Certificate of Analysis

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Product:	Isopropyl Alcohol	CP-D9091P
CAS#	67-63-0	Lot: 122122CP
Formula:	(CH <sub>3</sub> ) <sub>2</sub> CHOH	FW: 6010 g/mol
MDL:	MFCD00011674	Density: 0.7864 g/cc
EC:	200-661-7	Boiling Pt: 82.3 +/- 0.1C

Meets ACS Grade Specifications

TEST	MAXIMUM LIMITS	RESULT
Assay	min. 99.5%	99.98%
Color (APHA)	10	5
Carbonyl Compounds	20 ppm	< 2 ppm
Residue after evaporation	10 ppm	< 1 ppm
Density (g/mL) @ 20C	0.7862 – 0.7870	0.7864
Density (g/mL) @ 25C	0.7830 – 0.7840	0.7831
Boiling Range	82.3C +/- 0.1C	Pass
Solubility in water	Passes ACS test	Pass
Titrateable Acid or Base	0.0001 meq/g	< 0.0001 meq/g
Nickel (Ni )	0.1 ppm	< 0.02 ppm
Copper ( Cu )	0.1 ppm	< 0.02 ppm
Iron ( Fe )	0.1 ppm	< 0.02 ppm
Water	0.2% max.	< 0.01%
Heavy Metals ( as Pb)	0.2 ppm	< 0.02 ppm
Grade	ACS Reagent, meets USP and NF	
Manufacturing Date		Dec- 12- 2022
Retest Date		Dec- 11 -2024

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