

## Certificate of Analysis (COA)

### Product Information

Product Name	Acetaldehyde
Product Number	ACD-20260320
Batch Number	ACD-SH2026032001
Brand	TECHPURE
CAS Number	75-07-0
MDL Number	MFCD00006991
Formula	C <sub>2</sub> H <sub>4</sub> O
Formula Weight	44.05 g/mol
Quality Release Date	20 MAR 2026
Physical State	Colorless liquid (stabilized with methanol)

### Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Purity (GC)	≥ 99.0%	99.2%	%	Gas Chromatography (GC)
Stabilizer (Methanol) Content	3-5%	3.8%	%	Gas Chromatography (GC)
Water Content	≤ 0.5%	0.2%	%	Karl Fischer Titration
Density (20°C)	0.777-0.779 g/cm <sup>3</sup>	0.778 g/cm <sup>3</sup>	g/cm <sup>3</sup>	Density Meter
Boiling Range	20-22°C	20.5-21.8°C	°C	Distillation Test
Acidity (as CH <sub>3</sub> COOH)	≤ 0.001%	0.0004%	%	Titration Method
Heavy Metals (Pb)	≤ 0.5 ppm	0.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 0.1 ppm	0.03 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Non-Volatile Residue	≤ 0.005%	0.001%	%	Gravimetric Method

### Certification

This batch of product has been tested in accordance with industrial standards for acetaldehyde and meets all specified requirements. It is qualified for industrial and laboratory use.

Issue Date: 20 MAR 2026