

## Certificate of Analysis (COA)

### Product Information

Product Name: n-Butanol (1-Butanol)  
Product Number: NBA-20260217  
Batch Number: NBA-SH2026021701  
Brand: TECHPURE  
CAS Number: 71-36-3  
MDL Number: MFCD00004724  
Formula:  $C_4H_9OH$   
Formula Weight: 74.12 g/mol  
Quality Release Date: 17 FEB 2026

### Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless	Colorless	-	Visual Inspection
Appearance (Form)	Clear liquid	Clear liquid	-	Visual Inspection
Purity (GC)	≥ 99.5%	99.7%	%	Gas Chromatography (GC)
Water Content	≤ 0.2%	0.1%	%	Karl Fischer Titration
Density (20°C)	0.809-0.811 g/cm <sup>3</sup>	0.810 g/cm <sup>3</sup>	g/cm <sup>3</sup>	Density Meter
Boiling Range	117.0-118.5°C	117.5-118.2°C	°C	Distillation Test
Non-Volatile Residue	≤ 0.005%	0.002%	%	Gravimetric Method
Heavy Metals (Pb)	≤ 0.5 ppm	0.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 0.1 ppm	0.04 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Acidity (as CH <sub>3</sub> COOH)	≤ 0.001%	0.0005%	%	Titration Method

### Certification

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

Issue Date: 17 FEB 2026