

## Certificate of Analysis

Date of Testing: 2024-10-14 16:31:41  
Date of Next Testing: 2028-10-13 16:31:41  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: AR, ≥99%  
Lot #: I2430011  
SKU #: **B111571**  
Version: **2**  
Analysis #: **414384**  
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Color test (APHA)	0-10 (APHA)	0.00 APHA
Density (20°C)	0.808-0.811 (g/ml)	0.81 g/ml
Iron(Fe)	0-0.5 (ppm)	0.00 ppm
Esers(As CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub> )	0-0.1 (%)	0.00 %
Evaporation Residue	0-0.001 (%)	0.00 %
Water by Karl Fischer	0-0.2 (%)	0.05 %
Assay(GC)	99-100 (%)	99.42500 %
Carbonyl compounds (As CO)	0-0.02 (%)	0.00000 %
Acidity(as H <sup>+</sup> )	0-0.0005 (mmol/g)	0.00 mmol/g
Unsaturated compounds(Br)	0-0.005 (%)	0.01 %
Appearance (B111571)	Colorless Clear Liquid	Colorless clear liquid
Readily carbonizable substance	pass	Pass



John Su  
QA & QC Manager