

## Certificate of Analysis

Date of Testing: 2023-03-25 11:47:20  
Date of Next Testing: 2027-03-24 11:47:20  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: spectrographic grade,99.5%  
Lot #: C2323108  
SKU #: **B111581**  
**Analysis: 203221**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
UV Absorbance 260nm	0-0.04	0.01
UV Absorbance 240nm	0-0.1	0.04
Purity(GC)	99.5-100 (%)	99.77 %
UV Absorbance 220nm	0-1	0.23
UV Absorbance 400nm	0-0.01	0.00
Evaporation Residue	0-0.0005 (mg/L)	0.00 mg/L
Refractive index n <sub>20</sub> /D	1.398-1.4	1.40
Water by Karl Fischer	0-0.1 (%)	0.01 %
UV Absorbance 225nm	0-0.5	0.15
UV Absorbance 280nm	0-0.01	0.01
Color Test	0-10	0.00
Appearance (B111581)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
λ, H <sub>2</sub> O reference	Pass	Pass



John Su  
QA & QC Manager