

## Certificate of Analysis

Date of Testing: 2024-09-06 11:01:40  
Date of Next Testing: 2028-09-05 11:01:40  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: Chromatographic grade,  $\geq 99.7\%$ (GC)  
Lot #: H2428398  
SKU #: **B111575**  
Version: **1**  
Analysis #: **401665**  
Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
UV Absorbance 220nm	0-0.7	0.36
Refractive index n <sub>20</sub> /D	1.398-1.4	1.40
UV Absorbance 280nm	0-0.01	0.01
UV Absorbance 225nm	0-0.5	0.22
Purity(GC)	99.7-100 (%)	99.89%
Evaporation Residue	0-2 (mg/L)	0.00 mg/L
UV Absorbance 235nm	0-0.1	0.09
free acid (as C <sub>3</sub> H <sub>7</sub> COOH)	0-0.002 (%)	0.00%
UV Absorbance 400nm	0-0.01	0.00
Water by Karl Fischer	0-0.1 (%)	0.01%
UV Absorbance 240nm	0-0.1	0.06
UV Absorbance 260nm	0-0.04	0.01
UV Absorbance 210nm	0-1	1.00
Appearance (B111575)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager