

Certificate of Analysis

Date of Testing: 2024-07-15 16:08:18
Date of Next Testing: 2028-07-14 16:08:18
Product Name: **n-Butanol**
CAS Number: 71-36-3
Specifications & Purity: for HPLC, $\geq 99.7\%$ (GC)
Lot #: G2408078
SKU #: **B111575**
Version: **1**
Analysis #: **389647**
Storage Temperature: Argon charged, Desiccated

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| UV Absorbance 220nm | 0-0.7 | 0.25 |
| Refractive index n ₂₀ /D | 1.398-1.4 | 1.40 |
| UV Absorbance 280nm | 0-0.01 | 0.00 |
| UV Absorbance 225nm | 0-0.5 | 0.15 |
| Purity(GC) | 99.7-100 (%) | 99.87 % |
| Evaporation Residue | 0-2 (mg/L) | 0.00 mg/L |
| UV Absorbance 235nm | 0-0.1 | 0.02 |
| free acid (as C ₃ H ₇ COOH) | 0-0.002 (%) | 0.00 % |
| UV Absorbance 400nm | 0-0.01 | 0.00 |
| Water by Karl Fischer | 0-0.1 (%) | 0.00 % |
| UV Absorbance 240nm | 0-0.1 | 0.04 |
| UV Absorbance 260nm | 0-0.04 | 0.01 |
| UV Absorbance 210nm | 0-1 | 0.80 |
| 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".

John Su
QA & QC Manager