

Certificate of Analysis

Date of Testing: 2022-02-14 11:26:11

Date of Next Testing: 2026-02-13 11:26:11

Product Name: **n-Butanol**

CAS Number: 71-36-3

Specifications & Purity: ACS, $\geq 99.4\%$

Lot #: B2210297

SKU #: **B111578**

Analysis: **072397**

Storage Temperature: Desiccated

| Parameter | Limit Values | Result |
|--------------------------------------|-----------------------|-----------------------|
| Refractive index n ₂₀ /D | 1.398-1.4 | 1.40 |
| Water by Karl Fischer | 0-0.1 (%) | 0.02 % |
| Purity(GC) | 99.4-100 (%) | 99.51 % |
| Titration Acid | 0-0.0008 (mg/g) | 0.00 mg/g |
| Evaporation Residue | 0-0.005 (%) | 0.00 % |
| Color scale | 0-10 (APHA) | 2.36 APHA |
| Butyl ether | 0-0.2 (%) | 0.01 % |
| Carbonyl compounds(as butyraldehyde) | 0-0.01 (%) | 0.01 % |
| Appearance (B111578) | Colorless Liquid | Colorless liquid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager