

## Certificate of Analysis

Date of Testing: 2024-10-15 13:38:58  
Date of Next Testing: 2028-10-14 13:38:58  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: ACS, ≥99.4%  
Lot #: J2408015  
SKU #: **B111578**  
Version: **1**  
Analysis #: **414388**  
Storage Temperature: Desiccated

| Parameter                            | Limit Values          | Result                |
|--------------------------------------|-----------------------|-----------------------|
| Refractive index n <sub>20</sub> /D  | 1.398-1.4             | 1.40                  |
| Water by Karl Fischer                | 0-0.1 (%)             | 0.04 %                |
| Purity(GC)                           | 99.4-100 (%)          | 99.67 %               |
| Evaporation Residue                  | 0-0.005 (%)           | 0.00 %                |
| Color scale                          | 0-10 (APHA)           | 0.00 APHA             |
| Butyl ether                          | 0-0.2 (%)             | 0.00 %                |
| Titration Acid                       | 0-0.0008 (meq/g)      | 0.00000 meq/g         |
| Carbonyl compounds(as butyraldehyde) | 0-0.01 (%)            | 0.01 %                |
| Appearance (B111578)                 | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                    | Conforms to Structure | Conforms to Structure |



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