

## Certificate of Analysis

Date of Testing: 2022-04-28 14:34:28  
Date of Next Testing: 2026-04-27 14:34:28  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: ACS,  $\geq 99.4\%$   
Lot #: D2226026  
SKU #: **B111578**  
**Analysis:** **088413**  
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 (%)	99.79%
Titration Acid	0-0.0008 (mg/g)	0.00 mg/g
Evaporation Residue	0-0.005 (%)	0.00%
Color scale	0-10 (APHA)	2.50 APHA
Butyl ether	0-0.2 (%)	0.12%
Carbonyl compounds(as butyraldehyde)	0-0.01 (%)	0.00%
Appearance (B111578)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager