

## Certificate of Analysis

Date of Testing: 2023-03-08 03:35:29  
Date of Next Testing: 2027-03-07 03:35:29  
Product Name: **n-Butanol**  
CAS Number: 71-36-3  
Specifications & Purity: reagent grade,98%  
Lot #: C2304323  
SKU #: **B111573**  
**Analysis:** **195590**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Carbonyl compounds	0-0.04 (%)	0.03 %
Evaporation Residue	0-0.005 (%)	0.00 %
Unsaturated compounds	0-0.05 (%)	0.04 %
Iron(Fe)	0-0.0001 (%)	0.00 %
Acidity	0-0.15	0.12
Density	0.808-0.811 (g/ml)	0.81 g/ml
Assay	98-100 (%)	98.36 %
Refractive index n <sub>20</sub> /D	1.398-1.4	1.40
Esers(As CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub> )	0-0.3 (%)	0.15 %
Color Test	0-15	12.00
Readily carbonizable substance	pass	Pass



John Su  
QA & QC Manager