

## 产品质量检测报告

Material 货号 FP1.5000756.0500  
Material description 名称 1-Butanol 正丁醇  
Grade 级别 ftpuresci Analytical Reagent  
AR级试剂

Lot 批次号 FP05R4B51F  
Production date 生产日期 2020/05/28  
CAS Number CAS号 71-36-3  
Molecular formula 化学式  $\text{CH}_3(\text{CH}_2)_3\text{OH}$   
Molecular mass 分子量 74.12  
Last Quality Control 有效期至 2023/05/27

| Characteristics 检测项目                                                                       | Specifications 标准规定 | Measured values 测量值 |
|--------------------------------------------------------------------------------------------|---------------------|---------------------|
| Appearance (Color) 外观 (颜色)                                                                 | Colorless           | Pass                |
| Appearance (Form) 外观 (形态)                                                                  | Liquid              | Pass                |
| Purity (GC) 含量                                                                             | min. 99.5%          | 99.72%              |
| Color (Hazen) 色度/黑曾单位(铂-钴色号)                                                               | max.10 Hazen        | 10 Hazen            |
| Density (20°C, g/ml) 密度                                                                    | 0.808-0.811         | 0.809               |
| Water (by Karl Fischer) 水分                                                                 | max.0.2%            | 0.099%              |
| Carbonyl Compounds (by CO) 羰基化合物                                                           | max.0.02%           | <0.02%              |
| Acidity( H+) 酸度                                                                            | max. 0.0005 mmol/g  | 0.0002 mmol/g       |
| Iron(Fe) 铁                                                                                 | max. 0.00005 %      | <0.00005 %          |
| Evaporation residue 蒸发残渣                                                                   | max.0.001%          | 0.00063%            |
| Esters( $\text{CH}_3\text{COOC}_4\text{H}_9$ ) 酯(以 $\text{CH}_3\text{COOC}_4\text{H}_9$ 计) | max.0.1%            | <0.1%               |
| Unsaturated compound(Br) 不饱和化合物                                                            | max.0.005%          | <0.005%             |
| Readily carbonizable substances 易炭化物质                                                      | Pass                | Pass                |

## Signature 签名

We certify that the batch of products meet the above specifications.  
我们保证这批产品符合上述要求

Head of Laboratory-  
分析室经理-

FT SCI Group Company; FORTUNETREE Chemical Analysis  
and Testing Center China  
弗顿控股  
弗顿分析检测中心

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