

## Certificate of Analysis

Date of Testing: 2022-11-22 17:33:46  
Date of Next Testing: 2024-11-11 17:33:46  
Product Name: **1,4-Dioxane**  
CAS Number: 123-91-1  
Specifications & Purity: Analytical Reagent, 99%, contains 20-30ppm BHT as stabilizer  
Lot #: K2217042  
SKU #: **D116157**  
Analysis: **152546**

Parameter	Limit Values	Result
Density (20°C)	1.033-1.037	1.03
Water by Karl Fischer	0-0.1 (%)	0.06 %
Iron(Fe)	0-0.0001 (%)	0.00 %
Refractive index n <sub>20</sub> /D	1.42-1.424	1.42
Titration Acid	0-0.2 (mg/g)	0.10 mg/g
Peroxide(as H <sub>2</sub> O <sub>2</sub> )	0-0.005 (%)	0.00 %
Purity(GC)	99-100 (%)	99.77 %
Crystallization point	10-12 (°C)	10.30 °C
Evaporation Residue	0-0.005 (%)	0.00 %
Color Test	0-20	10.00
Appearance (D116157)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager