

## Certificate of Analysis

Date of Testing: 2021-12-16 15:47:32  
Date of Next Testing: 2025-12-15 15:47:32  
Product Name: **Propanol**  
CAS Number: 71-23-8  
Specifications & Purity: reagent grade,99.0%  
Lot #: L2109200  
SKU #: **P110343**  
Analysis: **059163**

Parameter	Limit Values	Result
Evaporation Residue	0-0.002 (%)	0.00%
ester(as CH <sub>3</sub> COOC <sub>3</sub> H <sub>7</sub> )	0-0.1 (%)	0.01%
Aldehydes	0-0.2 (%)	0.01%
Refractive index n <sub>20</sub> /D	1.384-1.386	1.39
Unsatuated compounds	0-0.1 (%)	0.01%
Acidity(as H <sup>+</sup> )/ (mmol/100g)	0-0.05	0.03
Purity(GC)	99-100 (%)	99.91%
Density (20°C)	0.803-0.805	0.80
Appearance (P110343)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager