

## PRODUCT SPECIFICATION

Product Description	Ethanol, Denatured IPA, 70%
Grade	Qcura
Product Code	IETOH(70)112-2.5P, IETOH(70)112-5.0P
CAS Number	64-17-5 (Ethanol), 67-63-0 (Isopropyl Alcohol), 7732-18-5 (Water)

Test	Test Method	Specification	Unit
Chemical analysis using FTIR	LQP-22-SOP-T008	Pass	-
Purity Assay (FTIR)			
1) Ethanol	LQP-22-SOP-T008	70 – 72	%
2) Isopropyl Alcohol as denaturant	LQP-22-SOP-T008	3.5 – 3.6	%
3) Water Content	LQP-22-SOP-T008	24.4 – 26.5	%
Acidity	LQP-22-SOP-T001	≤ 0.0003	meq/g
Non-Volatile Matter	LQP-22-SOP-T004	≤ 1.0	mg/100mL
Specific Gravity (at 20°C)	ASTM D4052	0.869 – 0.889	-
Density (at 20°C)	ASTM D4052	0.866 – 0.886	g/cm <sup>3</sup>
Appearance	LQP-22-SOP-M001	Clear	-
Solubility in water	ASTM D1722	Pass	-
Bacterial Endotoxin Test **	USP 85	≤ 2.5	E.U./mL
Total Aerobic Microbial Count **	BP 2013	≤ 10	CFU/mL
Total Yeast & Moulds Count **	BP 2013	≤ 10	CFU/mL
Limit Test for Heavy metal			
Lead	USP 233	≤ 0.01	mg/L
Arsenic	USP 233	≤ 0.01	mg/L
Mercury	USP 233	≤ 0.01	mg/L
Cadmium	USP 233	≤ 0.01	mg/L

- Notes:
- 1) The Ethanol, denatured IPA is tested to AR unless stated.
  - 2) Testing with \*\* mark indicate parameter with periodic testing.
  - 3) Product filtered through a 0.2 micron filter.

Date 5/1/2021  
Revision R1