



...Pure Quality

Certificate of Analysis

Product: Isopropyl Alcohol
Cat: CP-A9652
Lot: 220808-B031999
Date of Manufacture: 07/29/2022
Use Before Date: 07/28/2027

Meets ACS/USP/NF Specifications

<u>Test</u>	<u>Specification</u>		<u>Result</u>	<u>Units</u>
	<u>Min.</u>	<u>Max.</u>		
Appearance	Clear		Clear	
Carbonyl Compounds - Acetone		0.002	0.001	%
Assay (Corrected for water)	99.5% min		99.92	%
Carbonyl compounds - Propionaldehyde Solubility in Water		00.002	<0.002	%
Color (APHA)	To Pass Test		Passes test	
Titration Acid or Base Water, wt%	0.0001 meq/g		<10	APHA
Limit of volatile impurities- 2-Butanol		NMT 0.1%	0.0001	meq/g
Limit of volatile impurities- Acetone		NMT 0.1%	<0.1	%
Acidity		NMT 0.07mL	0.5	meq/g
Limit of volatile impurities- Diethyl Ether		NMT 0.1%	<0.1	%
Limit of volatile impurities- Diisopropyl Ether		NMT 0.1%	<0.1	%
Identification B		to Pass test	Pass	N/A
Identification A - Infrared Spectroscopy		to Pass test	Pass	N/A
Identification C - Limit of Methanol		NMT 0.02%	Pass	
Limit of Volatility impurities - Individual unspecified		NMT 0.1%	<0.1	%
Limit of volatile impurities - Methanol		NMT 0.02%	<0.02	%
Limit of volatile impurities - n-Propyl alcohol		NMT 0.1%	<0.1	%
Limit on Nonvolatile Residue		NMT 0.005%	0.0	%
Refractive Index @ 20C		1.376-1.378	1.377	
Limit of Volatile Impurities - Total		NMT 1.0%	<0.1	%
Water Determination		NMT 0.5%	0.03	%