



**ChemPure* Brand
Chemicals**

...Pure Quality

Certificate of Analysis

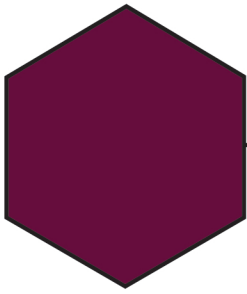
Product: Isopropyl Alcohol
Cat: CP-C9093
Lot: DH149
Date of Manufacture: 9/5/12
Use Before Date: 3/7/14

Meets ACS Specifications for General Use

<u>Test</u>	<u>Specification</u>		<u>Result</u>	<u>Units</u>
	<u>Min.</u>	<u>Max.</u>		
Appearance	Clear		Clear	
Water by Karl Fischer Titration		0.20	0.040	%
Residue after Evaporation		0.001	<0.001	%
Assay by GC Analysis	99.5		99.96	%
Solubility in Water	Passes test		Passes test	
Color (APHA)		10	<10	
Titration Acid or Base		0.1	<0.1	µeq/g
Carbonyl Compounds		0.002	<0.002	%

Quality Control Approval

LIMS Sample No.: AD02592



**ChemPure* Brand
Chemicals**

...Pure Quality

Certificate of Analysis

Product: Isopropyl Alcohol
Cat: CP-C9092
Lot: DH172
Date of Manufacture: 9/13/12
Use Before Date: 3/15/14

Meets ACS Specifications

<u>Test</u>	<u>Specification</u>		<u>Result</u>	<u>Units</u>
	<u>Min.</u>	<u>Max.</u>		
Water by Karl Fischer Titration		0.060	0.038	%
UV Cutoff		205	204	nm
Refractive Index (20°C)	1.3766	1.3778	1.3772	
Residue		3	<1	mg/L
GC Analysis	99.9		99.99	%
Solubility in Water	Passes test		Passes test	
Color (APHA)		10	<10	
Titration Acid or Base		0.1	0.07	µeq/g
Carbonyl Compounds		0.002	<0.002	%
UV Absorbance @ 225 nm		0.1600	0.1206	AU
UV Absorbance @ 250 nm		0.0200	0.0198	AU
UV Absorbance @ 300 nm		0.0050	0.0043	AU
UV Absorbance @ 400 nm		0.0050	<0.0001	AU

Quality Control Approval

LIMS Sample No.: AD02689