



**ChemPure* Brand
Chemicals**

October 23, 2018
...Pure Quality

Certificate of Analysis

Isopropyl Alcohol

ACS Reagent Grade, Meets USP, NF,
Laboratory Reagent

CAT.No: CP-A9652
CAS No: 67-63-0
Lot No: K18K19CP
Retest Date: October 22, 2023
Storage: Room Temp

Molecular Formula: (CH₃)₂CHOH
Formula Weight: 60.10 g/mol
MDL: MFCD00011674
EC No: 200-661-7
Density: 0.7864@20°C
Boiling Pt: 82.31-/+0.01°C

| TEST | MONOGRAPH | SPECIFICATIONS | RESULTS |
|--|-----------|----------------------------|---------------|
| Appearance | ACS* | Clear, Colorless | Conform |
| Assay (Corrected for water) | USP | > 99.0% | s 99.9% |
| Assay (Corrected for water) | ACS | > 99.5% | 99.9% |
| Color (APHA) | ACS | 10 max | <1 |
| Water (H ₂ O) Wt. % | ACS | 0.2 % max | 0.04% |
| Water Determination | USP | 0.5% | 0.04% |
| Evaporation Residue | ACS* | 0.001% | 0.000% |
| Limit of Nonvolatile Residue | USP | < 2.5 mg (0.005%) | 0.0 mg |
| Solubility in Water | ACS* | T.P.T. | Pass |
| Titrateable Acid & Base | ACS* | 0.0001 meq/g max | 0.0001 |
| Carbonyl Compounds: Acetone | ACS | 0.002% max | <0.002% |
| Carbonyl Compounds: Propionaldehyde | ACS | 0.002% max | <0.002% |
| Specific Gravity | USP | 0.783 - 0.787 @ 25°C | 0.783 |
| Identification A - Infrared Absorption | USP | T.P.T. | Pass |
| Identification B | USP | T.P.T. | Pass |
| Refractive Index @ 20°C | USP | 1.376 - 1.378 | 1.376 |
| Acidity | USP* | 0.70 ml of NaOH max | 0.20 ml |
| Volatile Impurities: | USP | Diethyl Ether 0.1% max | <0.1% |
| | USP | Acetone 0.1% max | None Detected |
| | USP | Diisopropyl Ether 0.1% max | <0.1% |
| | USP | n-propyl Alcohol 0.1% max | <0.1% |
| | USP | 2-Butanol 0.1% max | None Detected |
| | USP | Total 1.0% max | 0.1% |

* = Quarterly tests performed by manufacturer

Approved: J. Wilson, Lab Technician

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