



## Product Specifications Sheet

Product Name Isopropyl Alcohol 99%  
 Grade ACS/USP/NF Grade  
 Catalog # 231000099, zp231000099

| TEST   | MONO-GRAPH | SPECIFICATION                          | TYPICAL RESULT | UNITS |
|--|------------|--|----------------|-------|
| Carbonyl Compounds - Acetone                     | ACS        | 0.002% max                             | 0.001          | %     |
| Assay (corrected for water)                      | ACS        | 99.5% min                              | 99.91          | %     |
| Color, APHA                                      | ACS        | 10 max                                 | 1              | N/A   |
| Carbonyl Compounds - Propionaldehyde             | ACS        | 0.002% max                             | LT 0.002%      | N/A   |
| Residue after Evaporation                        | ACS        | 0.001% max                             | 0.000          | %     |
| Solubility in water                              | ACS        | To Pass Test                           | Pass           | N/A   |
| Titration Acid or Base                           | ACS        | 0.0001 meq/g                           | 0.0001         | meq/g |
| Water, wt%                                       | ACS        | NMT 0.2%                               | 0.05           | %     |
| Limit of Volatile Impurities - 2-Butanol         | USP        | NMT 0.1%                               | LT 0.1%        | N/A   |
| Limit of Volatile Impurities - Acetone           | USP        | NMT 0.1%                               | None Detected  | N/A   |
| Acidity  | USP        | NMT 0.70 ml of 0.020N NaOH is required | 0.2            | ml    |
| Assay (corrected for water)                      | USP        | 99.0% min                              | 99.91          | %     |
| Limit of Volatile Impurities - Diethyl Ether     | USP        | NMT 0.1%                               | LT 0.1%        | N/A   |
| Limit of Volatile Impurities - Diisopropyl Ether | USP        | NMT 0.1%                               | LT 0.1%        | N/A   |
| Identification B                                 | USP        | To Pass Test                           | Pass           | N/A   |
| Identification A - Infrared Spectroscopy         | USP        | To Pass Test                           | Pass           | N/A   |
| Identification C – Limit of Methanol             | USP        | NMT 0.02%                              | Pass           | N/A   |
| Limit of Volatile Impurities – Methanol          | USP        | NMT 0.02%                              | LT 0.02%       | N/A   |



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| Limit of Volatile Impurities - n-Propyl Alcohol                | USP        | NMT 0.1%            | LT 0.1%        | N/A   |
| Limit of Nonvolatile Residue                                   | USP        | NMT 2.5 mg (0.005%) | 0.0            | mg    |
| Refractive Index @ 20oC  | USP        | 1.376-1.378         | 1.377          | N/A   |
| Specific Gravity   | USP        | 0.783 - 0.787 @25°C | 0.783          | N/A   |
| Limit of Volatile Impurities – Individual unspecified impurity | USP        | NMT 0.1%            | LT 0.1%        | N/A   |
| Limit of Volatile Impurities - Total                           | USP        | NMT 1.0%            | LT 0.1%        | N/A   |
| Water Determination  | USP        | NMT 0.5%            | 0.05           | %     |

This product is for further commercial manufacturing, laboratory or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.