PRODUCT SPECIFICATION SHEET

# ISOPROPYL ALCOHOL 99%

Meets GENERAL USE HPLC-UV GRADE Monographs

Main Catalog No: 231HPLC99

Available in the following sizes:

**4x1 gallon Fluorinated Poly, 4x4 liter Amber Glass**

| PRODUCT SPECIFICATIONS | MONOGRAPH | LIMITS | TYPICAL RESULT |
|---|---|---|---|
| Assay by GC, corrected for water, min. | ACS<br>USP | 99.5%<br>99.0% | 99.96% |
| Identification (IR) | USP | To Pass | Pass |
| Color (APHA), max. | ACS | NMT 10 | <10 |
| Appearance | ACS | Clear liquid | Clear |
| Solubility in Water | ACS | Solution as clear as equal volume of water | Pass |
| Residue After Evaporation, max. | ACS | 0.001% | 0.0005% |
| Limit of Non-Volatile Residue, max. | USP | 2.5 mg/50mL | 0.5 mg |
| Titrable Acid or Base, max. | ACS | 0.0001 meq/g | Pass |
| Acidity | USP | NMT 0.70 ml of 0.02N NaOH required for neutralization | 0.25ml |
| Water, max. | ACS | 0.2% | 0.02% |
| Carbonyl Compounds 0.002% max each of Propionaldehyde or Acetone | ACS | 0.002% | <0.001% |
| Refractive Index @ 20C | USP | 1.376-1.378 | 1.377 |
| Specific Gravity @ 25C | USP | 0.783-0.787 | 0.783 |
| Limit of Volatile Impurities | USP | Diethyl Ether NMT 0.1%<br>Acetone NMT 0.1%<br>Diisopropyl Ether NMT 0.1%<br>n-Propyl Alcohol NMT 0.1%<br>2-Butanol NMT 0.1%<br>Total NMT 1.0% | <0.1%<br><0.1%<br><0.1%<br><0.1%<br><0.1%<br><0.1% |
| UV Absorbance @<br>210 nm<br>220 nm<br>230 nm<br>245 nm<br>260 nm<br>275 nm<br>300 nm<br>330 nm - 400 nm | ACS | A.U.<br>1.0 max.<br>0.40 max.<br>0.20 max.<br>0.08 max.<br>0.04 max.<br>0.03 max.<br>0.02 max.<br>0.01 max. | A.U.<br>0.43<br>0.21<br>0.11<br>0.03<br>0.01<br>0.00<br>0.00<br>0.00 |
| Liquid Chromatography (ACS) | ACS | To Pass Test(s) | Pass |
| Absorbance | | | Pass |
| Gradient Elution | | | Pass |
| Gradient Analysis @ 254 nm | | | Pass |

Form Isopropanol 99.8%-HPLC, # 301, Rev. 2.7, 06/16, KAD

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or 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.