**n-Propyl Alcohol**

**World/GMP, WORLD GRADE®**

**Grade:** ACS/FCC/EP **Catalog number:** 334WORLD

| Test | Mono-graph | Specification | Typical Result |
|---|---|---|---|
| Assay (by GC, corrected for water) | ACS | NLT 99.5% | 99.95 % |
| Assay | FCC | NLT 99.0% of C3H8O | 99.97 % |
| Solubility in Water | ACS | To pass test | Pass |
| Color (APHA) | ACS | 10 max | 2 |
| Residue after Evaporation | ACS | 0.001% max | 0.000 % |
| Non-volatile Matter | EP | 0.004% max | 0.000 % |
| Titrable Acid | ACS | 0.0004 meq/g max | 0.0002 meq/g |
| Acidity or Alkalinity | EP | The solution is pink | Pass |
| Carbonyl Compounds (as Propionaldehyde) | ACS | 0.03% max | LT 0.03% |
| Ethyl Alcohol | ACS | 0.01% max | 0.01 % |
| Methanol | ACS | 0.01% max | 0.01 % |
| Isopropyl Alcohol | ACS | 0.05% max | 0.01 % |
| Related Substances – Any Impurity | EP | 0.1% max | LT 0.1% |
| Related Substances – Total Impurities | EP | 0.3% max | LT 0.3% |
| Water | ACS | 0.2% max | 0.02 % |
| Water | EP | 0.2% max | 0.02 % |
| Identification – Infrared Spectra | FCC | Conforms to Reference Spectra | Pass |

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| Identification C – Infrared Absorption | EP | Conforms to Reference Spectra | Pass |
| Refractive Index | FCC | 1.383 – 1.388 @ 20°C | 1.385 |
| Identification A – Refractive Index | EP | 1.384 – 1.387 @ 20°C | 1.385 |
| Specific Gravity | FCC | 0.800 – 0.805 @25°C | 0.802 |
| Identification B – Boiling Point | EP | 96°C - 98°C | Pass |
| Identification D | EP | Meets Requirement of Test | Pass |
| Appearance | EP | The substance to be examined is clear and colorless. After 5 min, the solution is clear. | Pass |
| Absorbance @ 230 nm | EP | 0.300 max | 0.050 nm |
| Absorbance @ 250 nm | EP | 0.100 max | 0.020 nm |
| Absorbance @ 270 nm | EP | 0.030 max | 0.010 nm |
| Absorbance @ 290 nm | EP | 0.020 max | 0.010 nm |
| Absorbance @ 310 nm | EP | 0.010 max | 0.000 nm |
| Reducing Substances | EP | To Pass Test | Pass |
| Ag (Silver) | USP<232> | Lot Analysis | 0.00 ppm |
| As (Arsenic) | USP<232> | Lot Analysis | 0.00 ppm |
| Au (Gold) | USP<232> | Lot Analysis | 0.00 ppm |
| Ba (Barium) | USP<232> | Lot Analysis | 0.00 ppm |
| Cd (Cadmium) | USP<232> | Lot Analysis | 0.00 ppm |
| Co (Cobalt) | USP<232> | Lot Analysis | 0.00 ppm |
| Cr (Chromium) | USP<232> | Lot Analysis | 0.00 ppm |

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| Cu (Copper) | USP<232> | Lot Analysis | 0.00 ppm |
| Hg (Mercury) | USP<232> | Lot Analysis | 0.00 ppm |
| Ir (Iridium) | USP<232> | Lot Analysis | 0.00 ppm |
| Li (Lithium) | USP<232> | Lot Analysis | 0.00 ppm |
| Mo (Molybdenum) | USP<232> | Lot Analysis | 0.00 ppm |
| Ni (Nickel) | USP<232> | Lot Analysis | 0.00 ppm |
| Os (Osmium) | USP<232> | Lot Analysis | 0.00 ppm |
| Pb (Lead) | USP<232> | Lot Analysis | 0.00 ppm |
| Pd (Palladium) | USP<232> | Lot Analysis | 0.00 ppm |
| Pt (Platinum) | USP<232> | Lot Analysis | 0.00 ppm |
| Rh (Rhodium) | USP<232> | Lot Analysis | 0.00 ppm |
| Ru (Ruthenium) | USP<232> | Lot Analysis | 0.00 ppm |
| Sb (Antimony) | USP<232> | Lot Analysis | 0.00 ppm |
| Se (Selenium) | USP<232> | Lot Analysis | 0.00 ppm |
| Sn (Tin) | USP<232> | Lot Analysis | 0.00 ppm |
| Tl (Thallium) | USP<232> | Lot Analysis | 0.00 ppm |
| V (Vanadium) | USP<232> | Lot Analysis | 0.00 ppm |

**Certification and Compliance Statements**

This product is processed and packaged in compliance with Good Manufacturing Practices.

This product complies with all of the current requirements listed in the American Chemical Society, Food Chemical Codex and European Pharmacopeia monographs. Certain test data has been supplied by third parties.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

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