

Isopropyl Alcohol, U.S.P.
Multi-Compendial

(2-propanol)



Material No.: 9037-01
Batch No.: 0000167833
Manufactured Date: 2017/03/03
Retest Date: 2022/03/02

Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets J.P. Chemical Specifications, Meets U.S.P Requirements,
GMP Manufactured Product

| Test | Specification | Result |
|--|---------------|---------|
| USP – Identification A | Passes Test | PT |
| USP – Identification B | Passes Test | PT |
| USP – Specific Gravity at 25°/25°C | 0.783 – 0.787 | 0.783 |
| USP – Refractive Index, n ²⁰ D | 1.376 – 1.378 | 1.377 |
| USP – Acidity | Passes Test | PT |
| USP – Nonvolatile Residue | <= 0.005 % | < 0.001 |
| USP – Assay | >= 99.0 % | 100.0 |
| USP – Water (H ₂ O) | <= 0.5 % | < 0.1 |
| USP – Volatile Impurities – Ethyl ether | <= 0.1 % | < 0.1 |
| USP – Volatile Impurities – Acetone | <= 0.1 % | < 0.1 |
| USP – Volatile Impurities – Diisopropyl ether | <= 0.1 % | < 0.1 |
| USP – Volatile Impurities – 1-Propanol | <= 0.1 % | < 0.1 |
| USP – Volatile Impurities – 2-Butanol | <= 0.1 % | < 0.1 |
| USP – Volatile Impurities – Total | <= 1.0 % | < 0.1 |
| USP – Benzene | <= 2 ppm | < 2 |
| EP/BP – Identification B | Passes Test | PT |
| EP/BP – Identification C | Passes Test | PT |
| Appearance | Passes Test | PT |
| EP/BP – Acidity or Alkalinity | Passes Test | PT |
| EP/BP – Benzene (C ₆ H ₆) | <= 2 ppm | < 2 |
| EP/BP – Any peak other than 2-butanol | <= 0.3 % | < 0.3 |
| EP/BP – Peroxide | Passes Test | PT |
| EP/BP – Nonvolatile Matter | <= 20 ppm | <20 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

| Test | Specification | Result |
|--------------------------------------|---------------|---------|
| EP/BP – Water (H ₂ O) | <= 0.5 % | < 0.1 |
| EP/BP – UV Absorbance – 310 nm | <= 0.010 | < 0.002 |
| EP/BP – UV Absorbance – 290 nm | <= 0.020 | < 0.002 |
| EP/BP – UV Absorbance – 270 nm | <= 0.030 | 0.002 |
| EP/BP – UV Absorbance – 250 nm | <= 0.100 | 0.018 |
| EP/BP – UV Absorbance – 230 nm | <= 0.300 | 0.104 |
| EP/BP – Spectrum Appearance | Passes Test | PT |
| JP – Identification A | Passes Test | PT |
| JP – Identification B | Passes Test | PT |
| JP – Specific Gravity at 20°/20°C | 0.785 – 0.788 | 0.786 |
| JP – Clarity of Solution | Passes Test | PT |
| JP – Acidity | Passes Test | PT |
| JP – Residue on Evaporation, mg/20mL | <= 1.0 | < 0.1 |
| JP – Water (H ₂ O) | <= 0.75 % | < 0.10 |
| JP – Distilling Range(Lower) | 81 – 83 °C | 82 |
| JP – Distilling Range (Upper) | 81 – 83 °C | 83 |

Bulk Pharmaceutical Chemical

CAUTION: For Manufacturing, processing or repackaging

Residual Solvents – The Class 1 solvent benzene is likely to be present as a result of the production process for this material. It is tested for and reported for every batch.

The Class 2 solvent cyclohexane is likely to be present and its level is controlled to <20 ppm by the production process.

Class 3 solvents acetone, n-butanol, sec-butanol and iso-butanol are likely to be present at levels <20 ppm.

The Class 4 solvent diisopropyl ether is likely to be present at a level of <20 ppm.

Country of Origin: CA
 Packaging Site: Paris Mfg Ctr & DC
 Manufacturer: P0005140
 Manufacturer source batch: 000002356766



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008

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 Vice President Global Quality

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