



Certificate of Analysis

Isopropyl Alcohol

USP GRADE REAGENT

CAT.No: CP-C9091P, CP-D9091P, CP-T9091
AS No: 67-63-0
Lot No: B00322DJMCP
Manufactured Date: April 6, 2020
Retest Date: April 5, 2022
Storage: Room Temp

Molecular Formula: $(CH_3)_2CHOH$
Formula Weight: 60.10 g/mol
MDL: MFCD00011674
EC No: 200-661-7
Density: 0.785@20°C
Boiling Pt: 82.15+/-0.85°C

| TEST | MONOGRAPH | SPECIFICATIONS | RESULTS |
|--|-----------|----------------------|----------|
| Appearance | | Clear, Colorless | Conforms |
| Assay (Corrected for water) | USP | > 99.0% | 99.90% |
| Assay (Corrected for water) | ACS | > 99.5% | 99.90% |
| Color (APHA) | ACS | 10 max | 3 |
| Water (H ₂ O) Wt. % | ACS | 0.1% max | 0.034% |
| Water Determination | USP | 0.1% max | 0.03% |
| Limit of Nonvolatile Residue, g/100ml | USP | 0.0010 max | 0.0002 |
| Solubility in Water | ACS | T.P.T. | Pass |
| Specific Gravity 20/20°C | USP | 0.785 - 0.787 @ 20°C | 0.787 |
| Specific Gravity 25/25°C | USP | 0.785 - 0.787 @ 25°C | 0.783 |
| Identification A - Infrared Absorption | USP | T.P.T. | Pass |
| Identification B - GC Retention | USP | T.P.T. | Pass |
| Refractive Index @ 20°C | USP | 1.376 - 1.378 | 1.377 |
| Acidity as Acetic Acid Wt. % | USP | 0.0020 max | 0.001 |
| Distillation IBP, °C | USP | 81.8 min | 82.1 |
| Distillation DP, °C | USP | 82.8 max | 82.4 |

Isopropyl Alcohol -USP is produced to comply with current Good Manufacturing Practices according to the USP General Chapter <1078> and the USP Monograph for Isopropyl Alcohol in effect. It is therefore intended for use as an Excipient ONLY, not for use as an active pharmaceutical ingredient (API).

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