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# Certificate of Analysis.

## 2-Propanol/Isopropyl alcohol (IPA) for trace metal speciation analysis, LC-ICP MS

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| Product code: | **BS13781.** |
| Description: | **2-Propanol/Isopropyl alcohol (IPA) for trace metal speciation analysis, LC-ICP MS** |
| Chemical Name: | **2-Propanol.** |
| Pack: | **1 lit.** |
| CAS NO.: | **67-63-0.** |
| Mol. Weight: | **60.10 g/mol.** |
| Mol. Formula: | **$C_3H_8O$.** |
| MDL Number: | **MFCD00011674.** |
| Melting point: | **-89.5°C.** |
| Boiling Point: | **82°C.** |
| Density: | **0.78 g/cm$^3$.** |
| Solubility: | **Soluble in Chloroform.** |
| Storage: | **Store at ambient temperature.** |
| LOT NO.: | **Sample.** |
| Manufacture Date: | **Lot specific.** |
| Expiry Date: | **5 years.** |

| Test | Specification | Measured Values |
|---|---|---|
| Appearance: | Colorless clear liquid. | **Lot specific.** |
| water (Karl Fischer): | Max. 0.05 %. | **Lot specific.** |
| transmittance from 260 nm: | Min. 98 %. | **Lot specific.** |
| transmittance at 230 nm: | Min. 75 %. | **Lot specific.** |
| transmittance at 220 nm: | Min. 50 %. | **Lot specific.** |
| silver (Ag): | Max. 0.5 ppb. | **Lot specific.** |
| aluminium (Al): | Max. 5 ppb. | **Lot specific.** |
| arsenic (As): | Max. 1 ppb. | **Lot specific.** |
| gold (Au): | Max. 0.5 ppb. | **Lot specific.** |
| barium (Ba): | Max. 0.5 ppb. | **Lot specific.** |
| beryllium (Be): | Max. 0.5 ppb. | **Lot specific.** |
| bismuth (Bi): | Max. 0.5 ppb. | **Lot specific.** |
| calcium (Ca): | Max. 30 ppb. | **Lot specific.** |
| cadmium (Cd): | Max. 0.5 ppb. | **Lot specific.** |
| cerium (Ce): | Max. 0.5 ppb. | **Lot specific.** |
| cobalt (Co): | Max. 0.5 ppb. | **Lot specific.** |
| chromium (Cr): | Max. 1 ppb. | **Lot specific.** |
| cesium (Cs): | Max. 0.5 ppb. | **Lot specific.** |

**USA:** #1004, Boston, Massachusetts, 02116, United States. **India:** Jeedimetla, Hyderabad-500 055, Telangana.
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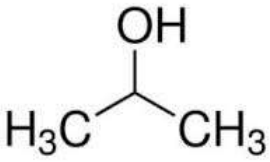
|---|---|---|
| copper (Cu): | Max. 1 ppb. | **Lot specific.** |
| iron (Fe): | Max. 5 ppb. | **Lot specific.** |
| gallium (Ga): | Max. 0.5 ppb. | **Lot specific.** |
| mercury (Hg): | Max. 1 ppb. | **Lot specific.** |
| indium (In): | Max. 0.5 ppb. | **Lot specific.** |
| iridium (Ir): | Max. 0.5 ppb. | **Lot specific.** |
| potassium (K): | Max. 10 ppb. | **Lot specific.** |
| lithium (Li): | Max. 0.5 ppb. | **Lot specific.** |
| magnesium (Mg): | Max. 10 ppb. | **Lot specific.** |
| manganese (Mn): | Max. 5 ppb. | **Lot specific.** |
| molybdenum (Mo): | Max. 0.5 ppb. | **Lot specific.** |
| sodium (Na): | Max. 250 ppb. | **Lot specific.** |
| nickel (Ni): | Max. 5 ppb. | **Lot specific.** |
| lead (Pb): | Max. 0.5 ppb. | **Lot specific.** |
| palladium (Pd): | Max. 1 ppb. | **Lot specific.** |
| platinum (Pt): | Max. 0.5 ppb. | **Lot specific.** |
| rubidium (Rb): | Max. 0.5 ppb. | **Lot specific.** |
| rhodium (Rh): | Max. 0.5 ppb. | **Lot specific.** |
| ruthenium (Ru): | Max. 0.5 ppb. | **Lot specific.** |
| antimony (Sb): | Max. 0.5 ppb. | **Lot specific.** |
| selenium (Se): | Max. 1 ppb. | **Lot specific.** |
| tin (Sn): | Max. 0.5 ppb. | **Lot specific.** |
| strontium (Sr): | Max. 0.5 ppb. | **Lot specific.** |
| titanium (Ti): | Max. 5 ppb. | **Lot specific.** |
| thallium (Tl): | Max. 0.5 ppb. | **Lot specific.** |
| uran (U): | Max. 0.5 ppb. | **Lot specific.** |
| vanadium (V): | Max. 0.5 ppb. | **Lot specific.** |
| zinc (Zn): | Max. 5 ppb. | **Lot specific.** |
| zirconium (Zr): | Max. 0.5 ppb. | **Lot specific.** |
| bromide (Br): | Max. 10 ppb. | **Lot specific.** |
| chloride (Cl): | Max. 25 ppb. | **Lot specific.** |
| fluoride (F): | Max. 10 ppb. | **Lot specific.** |
| iodide (I): | Max. 10 ppb. | **Lot specific.** |
| nitrite ($NO_2$): | Max. 10 ppb. | **Lot specific.** |
| nitrate ($NO_3$): | Max. 25 ppb. | **Lot specific.** |
| phosphate ($PO_4$): | Max. 50 ppb. | **Lot specific.** |
| sulfate ($SO_4$): | Max. 50 ppb. | **Lot specific.** |
| peroxides (as $H_2O_2$) | Max. 5 ppm. | **Lot specific.** |
| propionaldehyde (GC): | Max. 20 ppm. | **Lot specific.** |
| ketones (as $CH_{3C}OCH_3$): | Max. 20 ppm. | **Lot specific.** |
| Purity by GC: | ≥99.9%. | **Lot specific.** |

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.

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