

## Technical Data Sheet

| Product Name                                 | Ethanol Special Grade |       |         |
|----------------------------------------------|-----------------------|-------|---------|
| Product #                                    | KS-00606              | CAS # | 64-17-5 |
| For laboratory use, ACS, ISO, Ph Eur.(99.9%) |                       |       |         |
| Specifications                               |                       |       |         |
| Assay                                        | ≥ 99.9%               |       |         |
| Form                                         | Liquid                |       |         |
| Free Alkali (as NH <sub>3</sub> )            | ≤ 0.0001%             |       |         |
| Heavy Metals (as Pb)                         | ≤ 0.0001%             |       |         |
| Potassium Permanganate (KMnO <sub>4</sub> )  | ≤ 0.0003%             |       |         |
| Free Acid (as CH <sub>3</sub> COOH)          | ≤ 0.0005%             |       |         |
| Aldehydes (as CH <sub>3</sub> CHO)           | ≤ 0.001%              |       |         |
| Non-Volatile Matter                          | ≤ 0.001%              |       |         |
| Carbonyl Compounds (as CO)                   | ≤ 0.003%              |       |         |
| Acetone (GC)                                 | ≤ 0.001%              |       |         |
| Methanol (GC)                                | ≤ 0.02%               |       |         |
| Iso-Amyl Alcohol                             | ≤ 0.05%               |       |         |
| 2-Propanol                                   | ≤ 0.003%              |       |         |
| Higher Alcohols (GC)                         | ≤ 0.01%               |       |         |
| Aluminium (Al)                               | ≤ 0.5ppm              |       |         |
| Boron (B)                                    | ≤ 0.02ppm             |       |         |
| Barium (Ba)                                  | ≤ 0.1ppm              |       |         |

|                |           |
|----------------|-----------|
| Calcium (Ca)   | ≤ 0.5ppm  |
| Cadmium (Cd)   | ≤ 0.05ppm |
| Cobalt (Co)    | ≤ 0.02ppm |
| Chromium (Cr)  | ≤ 0.02ppm |
| Copper (Cu)    | ≤ 0.02ppm |
| Iron (Fe)      | ≤ 0.1ppm  |
| Magnesium (Mg) | ≤ 0.1ppm  |
| Manganese (Mn) | ≤ 0.02ppm |
| Nickel (Ni)    | ≤ 0.02ppm |
| Lead (Pb)      | ≤ 0.1ppm  |
| Strontium (Sn) | ≤ 0.1ppm  |
| Zinc (Zn)      | ≤ 0.1ppm  |
| Water          | ≤ 0.2%    |

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