

## SPECIFICATION

## Acetone

## SC

| REQUIREMENT                       | SPECIFICATION                   |
|-----------------------------------|---------------------------------|
| Appearance (APHA)                 | Colorless clear liquid (max.10) |
| Solubility in water               | clear                           |
| Sp. Gr.(20/20°C)                  | 0.790~0.793                     |
| Refractive index 20°C             | 1.358~1.360                     |
| Specific resistance               | min.20MΩ·cm                     |
| Water                             | max.0.25%                       |
| Residue after evaporation         | max.1ppm                        |
| Acidity (as CH <sub>3</sub> COOH) | max.10ppm                       |
| Alkalinity (as NH <sub>3</sub> )  | max.1ppm                        |
| Aldehydes (as HCHO)               | max.10ppm                       |
| Methanol (CH <sub>3</sub> OH)     | max.500ppm                      |
| Substances reducing permanganate  | to pass test                    |
| Assay (capillary GC)              | min.99.7%                       |
| Chloride (Cl)                     | max.200ppb                      |
| Phosphate (PO <sub>4</sub> )      | max.100ppb                      |
| Boron (B)                         | max.5ppb                        |
| Silver (Ag)                       | max.0.5ppb                      |
| Aluminium (Al)                    | max.0.5ppb                      |
| Arsenic (As)                      | max.0.5ppb                      |
| Gold (Au)                         | max.0.5ppb                      |
| Barium (Ba)                       | max.0.5ppb                      |
| Calcium (Ca)                      | max.0.5ppb                      |
| Cadmium (Cd)                      | max.0.5ppb                      |
| Cobalt (Co)                       | max.0.5ppb                      |
| Chromium (Cr)                     | max.0.5ppb                      |
| Copper (Cu)                       | max.0.5ppb                      |
| Iron (Fe)                         | max.1ppb                        |
| Gallium (Ga)                      | max.1ppb                        |
| Germanium (Ge)                    | max.0.5ppb                      |

|                                 |            |
|---------------------------------|------------|
| Potassium (K)                   | max.1ppb   |
| Lithium (Li)                    | max.0.5ppb |
| Magnesium (Mg)                  | max.0.5ppb |
| Manganese (Mn)                  | max.0.5ppb |
| Sodium (Na)                     | max.5ppb   |
| Nickel (Ni)                     | max.0.5ppb |
| Lead (Pb)                       | max.0.5ppb |
| Silicon (Si)                    | max.1ppb   |
| Tin (Sn)                        | max.1ppb   |
| Strontium (Sr)                  | max.0.5ppb |
| Zinc (Zn)                       | max.0.5ppb |
| Particles (0.5 $\mu$ m or more) | max.50/ml  |
| Particles (0.2 $\mu$ m or more) | max.400/ml |