

## SPECIFICATION

## Citric Acid Monohydrate

for RoHS

REQUIREMENT	SPECIFICATION
Appearance	White, crystals ~ crystalline powder
Assay (C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> ·H <sub>2</sub> O)	min.99.5%(mass/mass)
Solubility in water	to pass test
Solubility in ethanol	to pass test
Residue after ignition (as sulfate)	max.0.02%(mass/mass)
Chloride (Cl)	max.5ppm(mass/mass)
Phosphate (PO <sub>4</sub> )	max.0.001%(mass/mass)
Sulfur compounds (as SO <sub>4</sub> )	max.0.005%(mass/mass)
Copper (Cu)	max.1ppm(mass/mass)
Calcium (Ca)	max.0.002%(mass/mass)
Zinc (Zn)	max.1ppm(mass/mass)
Lead (Pb)	max.1ppm(mass/mass)
Iron (Fe)	max.3ppm(mass/mass)
Oxalic acid (C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> )	max.0.01%(mass/mass)
Substances darkened by sulfuric acid	to pass test
Cadmium (Cd) (RoHS)	max.10ppm
Mercury (Hg) (RoHS)	max.10ppm
Lead (Pb) (RoHS)	max.1ppm
Chromium (Cr) (RoHS)	max.10ppm
Brominated flame retardants (as Br) (RoHS)	max.1ppm