

## PRODUCT SPECIFICATION SHEET

### Acetic Acid, 99.7%

Electronic/Semiconductor Grade

Test	Specification	Typical Results
Acetic Acid, % Weight	99.7 min.	99.7 min.
Acetic Anhydride, % Weight	0.01 max.	0.01 max.
Color APHA	7 max.	7 max.
Density (at 25 °C), g/mL	1.05	1.05
Dilution Test	Pass	Pass
Freezing Point, Deg F	61 min.	61 min.
Heavy Metals, ppb (µmg/g)	500 max.	500 max.
Solubility in Water	Pass	Pass
Phosphate, ppb (µmg/g)	500 max.	500 max.
Particle >1.0 µm ,pcs/mL	10 max.	10 max.
Particle >0.5 µm ,pcs/mL	150 max.	150 max.
Residue after Evaporation, ppb (µmg/g)	5000 max.	5000 max.
Subst. Reducing Dichromate	Pass	Pass
Subst. Reducing KMnO <sub>4</sub>	Pass	Pass
Sulfate, ppb (µmg/g)	500 max.	500 max.
Aluminum, ppb (µmg/g)	20 max.	20 max.
Antimony, ppb (µmg/g)	5 max.	5 max.
Arsenic, ppb (µmg/g)	5 max.	5 max.
Barium, ppb (µmg/g)	50 max.	50 max.
Beryllium, ppb (µmg/g)	10 max.	10 max.

Bismuth, ppb (µmg/g)	50 max.	50 max.
Boron, ppb (µmg/g)	20 max.	20 max.
Cadmium, ppb (µmg/g)	10 max.	10 max.
Calcium, ppb (µmg/g)	100 max.	100 max.
Chromium, ppb (µmg/g)	10 max.	10 max.
Cobalt, ppb (µmg/g)	10 max.	10 max.
Copper, ppb (µmg/g)	20 max.	20 max.
Gallium, ppb (µmg/g)	10 max.	10 max.
Germanium, ppb (µmg/g)	20 max.	20 max.
Gold, ppb (µmg/g)	20 max.	20 max.
Indium, ppb (µmg/g)	10 max.	10 max.
Iron, ppb (µmg/g)	50 max.	50 max.
Lead, ppb (µmg/g)	20 max.	20 max.
Lithium, ppb (µmg/g)	10 max.	10 max.
Magnesium, ppb (µmg/g)	50 max.	50 max.
Manganese, ppb (µmg/g)	10 max.	10 max.
Molybdenum, ppb (µmg/g)	20 max	20 max
Nickel, ppb (µmg/g)	10 max.	10 max.
Platinum, ppb (µmg/g)	50 max.	50 max.
Potassium, ppb (µmg/g)	50 max.	50 max.
Silver, ppb (µmg/g)	10 max.	10 max.
Sodium, ppb (µmg/g)	100 max.	100 max.
Strontium, ppb (µmg/g)	20 max.	20 max.
Thallium, ppb (µmg/g)	50 max.	50 max.
Tin, ppb (µmg/g)	50 max.	50 max.
Titanium, ppb (µmg/g)	50 max.	50 max.

Vanadium, ppb ( $\mu\text{mg/g}$ )	10 max.	10 max.
Zinc, ppb ( $\mu\text{mg/g}$ )	20 max.	20 max.
Zirconium, ppb ( $\mu\text{mg/g}$ )	50 max.	50 max.

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user