

## Product Specification

Meets U.S.P Requirements, Meets ACS Reagent Chemical Requirements, Meets F.C.C. Requirements, GMP Manufactured Product

Test	Specification
USP – Assay (CH <sub>3</sub> COOH)	99.7 – 100.5 %
USP – Chloride (Cl) (USP)	Passes Test
USP – Congealing Temperature	≥ 15.6 °C
USP – Identification	Passes Test
USP – Nonvolatile Residue	≤ 0.005 %
USP – Readily Oxidizable Substances	Passes Test
USP – Sulfate (USP)(SO <sub>4</sub> )	Passes Test
FCC – Assay (CH <sub>3</sub> COOH)	99.7 – 100.5 %
FCC – Identification	Passes Test
FCC – Lead (Pb)	≤ 0.5 mg/kg
FCC – Nonvolatile Residue	≤ 0.005 %
FCC – Readily Oxidizable Substances	Passes Test
FCC – Solidification Point	≥ 15.6 °C
ACS – Assay (CH <sub>3</sub> COOH) (by GC)	≥ 99.7 %
ACS – Acetic Anhydride ((CH <sub>3</sub> CO) <sub>2</sub> O)	≤ 0.01 %
ACS – Chloride (Cl)	≤ 1 ppm
ACS – Color (APHA)	≤ 10
Dilution Test	Passes Test
ACS – Heavy Metals (as Pb) (ACS)	≤ 0.5 ppm
Trace Impurities – ACS – Iron (Fe)	≤ 0.200 ppm
ACS – Residue after Evaporation	≤ 0.001 %
ACS – Substances Reducing Dichromate (ml)	≤ 0.40
ACS – Substances Reducing Permanganate	Passes Test
ACS – Sulfate (SO <sub>4</sub> )	≤ 1 ppm
ACS – Titrable Base (meq/g)	≤ 0.0004
Arsenic (As)	≤ 3 ppm
Copper (Cu)	≤ 0.00001 %
Freezing Point	≥ 16.0 °C

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Test	Specification
Nickel (Ni)	≤ 0.00001 %
Appearance	Passes Test

GMP Manufactured Product  
Food GMP Manufactured Product  
Bulk Food Chemical  
Bulk Pharmaceutical Chemical  
CAUTION: For Manufacturing, processing or repackaging  
Elemental Impurities (USP 232, EP 5.20) – Information on elemental impurities for this product is available on the associated Product Regulatory Data Sheet and elemental impurity profile report.  
Residual Solvents: No Class 1, 2 or 3 residual solvents are used in or produced by the production process.  
Storage Condition: IMPORTANT: Material will freeze if stored below 17 °C (63°F).

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier  
Vice President Global Quality