



Hydrochloric Acid

NF, FCC, ACS

Product No. 2062
 Specifications current as of: Jun 8 2011

TEST	SPECIFICATION
GMP Manufactured Product	
Meets N.F. Specifications	
Assay (HCl)	36.5 - 38.0 %
Bromide or Iodide	Passes Test
Free Bromine or Chlorine	Passes Test
Heavy Metals (Pb) (NF)	max. 5 ppm
Identification	Passes Test
Residue on Ignition	max. 0.008 %
Sulfate (SO ₄)	Passes Test
Sulfite (SO ₃)	Passes Test
Meets F.C.C. Specifications	
Assay (HCl)	36.5 - 38.0 %
Color (APHA)	Passes Test
Baume Degrees	22.7 - 23.4
Identification	Passes Test
Iron (Fe) (mg/kg)	max. 5
Lead (Pb) (mg/kg)	max. 1
Mercury (Hg)(mg/kg)	max. 0.10
Nonvolatile Residue	max. 0.5 %
Organic Compounds:	
Total Organic Compounds:	
Non-Fluorine Containing (mg/kg)	max. 5
Benzene (mg/kg)	max. 0.05
Fluorinated Organic Compounds(mg/kg)	max. 25
Oxidizing Substances	max. 0.003 %
Reducing Substances	max. 0.007 %
Specific Gravity	1.1856 - 1.1924
Sulfate (SO ₄)	max. 0.5 %
Meets A.C.S. Specifications	
Assay (HCl)	36.5 - 38.5 %

Ammonium (NH ₄)	max. 3 ppm
Arsenic (As)	max. 0.01 ppm
Bromide (Br)	max. 0.005 %
Color (APHA)	max. 10
Extractable Organic Substances	max. 5 ppm
Free Chlorine (as Cl)	max. 1 ppm
Heavy Metals (as Pb)	max. 1 ppm
Iron (Fe)	max. 0.2 ppm
Residue after Ignition	max. 5 ppm
Sulfate (SO ₄)	max. 1 ppm
Sulfite (SO ₃)	max. 1 ppm
Appearance	Passes Test
Hydrazine	max. 0.00001 %

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.
Bulk Food Chemical
Bulk Pharmaceutical Chemical
CAUTION: For manufacturing, processing or repacking.
For a Certificate of Lot Analysis, visit www.avantormaterials.com .