



Product Specifications

PRODUCT NAME: Hydrofluoric Acid 49%
SEMI

CHEMICAL FORMULA: HF

Product Code: 264200-90000
F.W.: 20.0100
CAS No: 7664-39-3
Density: 1.17

ITEM	SPECIFICATIONS
Manufacturer's Lot Number	
Appearance	Clear, colorless liquid
Assay (HF)	48.85 - 49.20%
Color (APHA)	6 max.
Chloride (Cl)	1,000.0 ppb max.
Nitrate (NO3)	1,000.0 ppb max.
Phosphate (PO4)	400.0 ppb max.
Sulfates (SO4)	500.0 ppb max.
Aluminum (Al)	10.0 ppb max
Antimony (Sb)	Record Actual
Arsenic (As)	Record Actual
Arsenic (As) & Antimony (Sb)	10.0 ppb max.
Barium (Ba)	5.0 ppb max.
Beryllium (Be)	5.0 ppb max.
Bismuth (Bi)	5.0 ppb max.
Boron (B)	10.0 ppb max.
Cadmium (Cd)	10.0 ppb max.
Calcium (Ca)	10.0 ppb max.
Chromium (Cr)	10.0 ppb max.
Cobalt (Co)	10.0 ppb max.
Copper (Cu)	10.0 ppb max.
Gallium (Ga)	10.0 ppb max.
Germanium (Ge)	10.0 ppb max.
Gold (Au)	5.0 ppb max.
Iron (Fe)	10.0 ppb max.
Lead (Pb)	10.0 ppb max.
Lithium (Li)	5.0 ppb max.
Magnesium (Mg)	10.0 ppb max.
Manganese (Mn)	10.0 ppb max.
Molybdenum (Mo)	10.0 ppb max.
Nickel (Ni)	10.0 ppb max.
Niobium (Nb)	Record Actual
Potassium (K)	10.0 ppb max.
Silver (Ag)	5.0 ppb max.
Sodium (Na)	10.0 ppb max.
Strontium (Sr)	10.0 ppb max.
Tantalum (Ta)	10.0 ppb max.
Thallium (Tl)	10.0 ppb max.
Tin (Sn)	10.0 ppb max.



Product Specifications

PRODUCT NAME: Hydrofluoric Acid 49%
SEMI

CHEMICAL FORMULA: HF

Product Code: 264200-90000
F.W.: 20.0100
CAS No: 7664-39-3
Density: 1.17

ITEM	SPECIFICATIONS
Titanium (Ti)	10.0 ppb max.
Vanadium (V)	10.0 ppb max.
Zinc (Zn)	10.0 ppb max.
Zirconium (Zr)	10.0 ppb max.
Fluosilicic acid (H ₂ SiF ₆)	50.0 ppm max.
Particles (>1.0 microns for bottled material)	25 particles/mL max.
Manufacture Date	Record Actual
Expiration Date	Record Actual

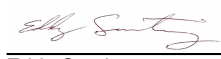
Remarks:

*Particle count certified for material in Teflon bottles only.

The above are the specifications, ranges and limits set for this product.

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication
SELLER'S WARRANTY AND LIMITATION OF REMEDIES.
Columbus Chemical Industries, Inc ("SELLER") warrants that the PRODUCT delivered hereunder conforms to SELLER's written specifications at the time of shipment. This is SELLER's sole and exclusive warranty with respect to the PRODUCT. **ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE, ARE HEREBY DISCLAIMED.** Provision of a PRODUCT sample shall not create any express or implied warranty as to the PRODUCT's performance in any specific application. BUYER acknowledges that it is solely responsible for determining the suitability of the PRODUCT for its intended use, including any regulatory or compliance obligations. SELLER's sole liability, and BUYER's exclusive remedy, for breach of this warranty shall be, at SELLER's option, (a) refund of the purchase price for the non-conforming PRODUCT, including reasonable freight charges paid by BUYER, or (b) replacement of the non-conforming PRODUCT at no additional cost to BUYER. SELLER shall not be liable to BUYER (or any party claiming through BUYER) for any incidental, consequential, or special damages, or any lost profits which may be incurred by BUYER (or any party claiming through BUYER).

Document Print Date:
8/13/2025


Eddy Santiago
Quality Assurance Manager

ACD Responsible Distribution Verified Member; ISO 9001 certified since 2009
Chemical Processors & Packagers Specializing in Acids, High Purity Salts, and Custom Blended Solutions
N4335 TEMKIN RD * COLUMBUS, WISCONSIN * 53925 * PH: (920) 623-2140
4034 W. WASHINGTON ST * PHOENIX, ARIZONA * 85009 * PH: (602) 272-2500