

## Detrex® FCC 5™ 23°

23° Baume Food Chemical Codex Grade 10ppb Trace Metal Hydrochloric Acid  
CAS No. 7647-01-0

<u>FCC Parameter</u>	<u>Specification*</u>	<u>Detrex Typical</u>
Assay	36.5 – 38%	37%
Degrees Baume	23°	23°
Specific Gravity	1.1856 – 1.1924	1.1885
Identification	Passes Test	Passes test
Iron	NMT 5 mg/kg	< 0.05 mg/kg
Lead	NMT 1 mg/kg	< 0.0001 mg/kg
Mercury	NMT 0.10 mg/kg	< 0.0001 mg/kg
Oxidizing Substances (as Cl <sub>2</sub> )	NMT 0.003%	< 0.0001%
Reducing Substances (as SO <sub>3</sub> )	NMT 0.007%	< 0.000025%
Sulfate	NMT 0.5%	< 0.00003%
Total Non-Fluorine Containing Organic Compounds	NMT 5 mg/kg including NMT 0.05 mg/kg benzene	< 0.001 mg/kg
Total Fluorinated Organic Compounds	NMT 0.0025%	< 0.0000001%
Color (APHA)	10 APHA	< 10 APHA
<u>Nonvolatile Residue</u>	<u>NMT 0.5%</u>	<u>&lt; 0.1 %</u>

\* Meets Food Chemicals Codex 11<sup>th</sup> Edition Specifications.

\*All analytical testing is performed in accordance with the monograph requirements or with validated alternative test methods.

<u>Trace Metal Element</u>	<u>Specification</u>	<u>Detrex Typical*</u>
Aluminum (Al)	5 ppb max	< 2 ppb
Antimony (Sb)	5 ppb max	< 2 ppb
Arsenic (As)	5 ppb max	< 2 ppb
Barium (Ba)	5 ppb max	< 2 ppb
Beryllium (Be)	5 ppb max	< 2 ppb
Bismuth (Bi)	5 ppb max	< 2 ppb
Boron (B)	5 ppb max	< 2 ppb
Cadmium (Cd)	5 ppb max	< 2 ppb
Calcium (Ca)	5 ppb max	< 2 ppb
Chromium (Cr)	5 ppb max	< 2 ppb
Cobalt (Co)	5 ppb max	< 2 ppb
Copper (Cu)	5 ppb max	< 2 ppb
Gallium (Ga)	5 ppb max	< 2 ppb
Germanium (Ge)	5 ppb max	< 2 ppb
Gold (Au)	5 ppb max	< 2 ppb
Indium (In)	5 ppb max	< 2 ppb
Iron (Fe)	5 ppb max	< 2 ppb
Lead (Pb)	5 ppb max	< 2 ppb
Lithium (Li)	5 ppb max	< 2 ppb
Magnesium (Mg)	5 ppb max	< 2 ppb
Manganese (Mn)	5 ppb max	< 2 ppb
Molybdenum (Mo)	5 ppb max	< 2 ppb
Nickel (Ni)	5 ppb max	< 2 ppb
Niobium (Nb)	5 ppb max	< 2 ppb
Platinum (Pt)	5 ppb max	< 2 ppb
Potassium (K)	5 ppb max	< 2 ppb

## Specification Sheet FCC 5<sup>™</sup>

Silicon (Si)	5 ppb max	< 2 ppb
Silver (Ag)	5 ppb max	< 2 ppb
Sodium (Na)	5 ppb max	< 2 ppb
Strontium (Sr)	5 ppb max	< 2 ppb
Tantalum (Ta)	5 ppb max	< 2 ppb
Thallium (Tl)	5 ppb max	< 2 ppb
Thorium (Th)	5 ppb max	< 2 ppb
Tin (Sn)	5 ppb max	< 2 ppb
Titanium (Ti)	5 ppb max	< 2 ppb
Vanadium (V)	5 ppb max	< 2 ppb
Zinc (Zn)	5 ppb max	< 2 ppb
Zirconium (Zr)	5 ppb max	< 2 ppb

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\*All testing completed with PerkinElmer ICP/MS