

## Detrex® FCC 10™ 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<br>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             |
| Nonvolatile Residue                             | NMT 0.5%                                        | < 0.1 %               |

\* Meets Food Chemicals Codex 9<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)              | 10 ppb max           | < 5 ppb                |
| Antimony (Sb)              | 10 ppb max           | < 5 ppb                |
| Arsenic (As)               | 10 ppb max           | < 5 ppb                |
| Barium (Ba)                | 10 ppb max           | < 5 ppb                |
| Beryllium (Be)             | 10 ppb max           | < 5 ppb                |
| Bismuth (Bi)               | 10 ppb max           | < 5 ppb                |
| Boron (B)                  | 10 ppb max           | < 5 ppb                |
| Cadmium (Cd)               | 10 ppb max           | < 5 ppb                |
| Calcium (Ca)               | 10 ppb max           | < 5 ppb                |
| Chromium (Cr)              | 10 ppb max           | < 5 ppb                |
| Cobalt (Co)                | 10 ppb max           | < 5 ppb                |
| Copper (Cu)                | 10 ppb max           | < 5 ppb                |
| Gallium (Ga)               | 10 ppb max           | < 5 ppb                |
| Germanium (Ge)             | 10 ppb max           | < 5 ppb                |
| Gold (Au)                  | 10 ppb max           | < 5 ppb                |
| Indium (In)                | 10 ppb max           | < 5 ppb                |
| Iron (Fe)                  | 10 ppb max           | < 5 ppb                |
| Lead (Pb)                  | 10 ppb max           | < 5 ppb                |
| Lithium (Li)               | 10 ppb max           | < 5 ppb                |
| Magnesium (Mg)             | 10 ppb max           | < 5 ppb                |
| Manganese (Mn)             | 10 ppb max           | < 5 ppb                |
| Molybdenum (Mo)            | 10 ppb max           | < 5 ppb                |
| Nickel (Ni)                | 10 ppb max           | < 5 ppb                |
| Niobium (Nb)               | 10 ppb max           | < 5 ppb                |
| Platinum (Pt)              | 10 ppb max           | < 5 ppb                |
| Potassium (K)              | 10 ppb max           | < 5 ppb                |



## Specification Sheet FCC 10™

|                |            |         |
|----------------|------------|---------|
| Silicon (Si)   | 10 ppb max | < 5 ppb |
| Silver (Ag)    | 10 ppb max | < 5 ppb |
| Sodium (Na)    | 10 ppb max | < 5 ppb |
| Strontium (Sr) | 10 ppb max | < 5 ppb |
| Tantalum (Ta)  | 10 ppb max | < 5 ppb |
| Thallium (Tl)  | 10 ppb max | < 5 ppb |
| Thorium (Th)   | 10 ppb max | < 5 ppb |
| Tin (Sn)       | 10 ppb max | < 5 ppb |
| Titanium (Ti)  | 10 ppb max | < 5 ppb |
| Vanadium (V)   | 10 ppb max | < 5 ppb |
| Zinc (Zn)      | 10 ppb max | < 5 ppb |
| Zirconium (Zr) | 10 ppb max | < 5 ppb |

\*All testing completed with PerkinElmer ICP/MS