

## Detrex ULTRAMAX<sup>®</sup> 5 - 23° Baume Hydrochloric Acid

CAS No. 7647-01-0

<u>Parameter</u>	<u>Detrex Specification</u>	<u>Detrex Typical</u>
Assay	37 - 38%	37.5%
Color (APHA)	< 5 APHA	< 5 APHA
Extractable Organic Substances	500 ppb max	B.D.L
Free Halogen (as Cl <sub>2</sub> )	500 ppb max	B.D.L.
Phosphate (PO <sub>4</sub> )	20 ppb max	B.D.L.
Sulfate (SO <sub>4</sub> )	100 ppb max	B.D.L.
Sulfite (SO <sub>3</sub> )	500 ppb max	B.D.L.
Aluminum (Al)	5 ppb max	< .5 ppb
Antimony (Sb)	5 ppb max	< .5 ppb
Arsenic (As)	5 ppb max	< .5 ppb
Barium (Ba)	5 ppb max	< .5 ppb
Beryllium (Be)	5 ppb max	< .5 ppb
Bismuth (Bi)	5 ppb max	< .5 ppb
Boron (B)	5 ppb max	< .5 ppb
Cadmium (Cd)	5 ppb max	< .5 ppb
Calcium (Ca)	5 ppb max	2.5 ppb
Chromium (Cr)	5 ppb max	< .5 ppb
Cobalt (Co)	5 ppb max	< .5 ppb
Copper (Cu)	5 ppb max	< .5 ppb
Gallium (Ga)	5 ppb max	< .5 ppb
Germanium (Ge)	5 ppb max	< .5 ppb
Gold (Au)	5 ppb max	< .5 ppb
Iron (Fe)	5 ppb max	2 ppb
Lead (Pb)	5 ppb max	< .5 ppb
Lithium (Li)	5 ppb max	< .5 ppb
Magnesium (Mg)	5 ppb max	< .5 ppb
Manganese (Mn)	5 ppb max	< .5 ppb
Niobium (Nb)	5 ppb max	< .5 ppb
Nickel (Ni)	5 ppb max	< .5 ppb
Potassium (K)	5 ppb max	< .5 ppb
Silver (Ag)	5 ppb max	< .5 ppb
Sodium (Na)	5 ppb max	< .5 ppb
Strontium (Sr)	5 ppb max	< .5 ppb
Tantalum (Ta)	5 ppb max	< .5 ppb
Thallium (Tl)	5 ppb max	< .5 ppb
Tin (Sn)	5 ppb max	< .5 ppb
Titanium (Ti)	5 ppb max	< .5 ppb
Vanadium (V)	5 ppb max	< .5 ppb
Zinc (Zn)	5 ppb max	< .5 ppb
Zirconium (Zr)	5 ppb max	< .5 ppb
< 1 particle per mL @ 1 micron		
< 1 particle per mL @ .5 micron		
< 5 particles per mL @ .3 micron		
< 70 particles per mL @ .2 micron		