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## Typical Product Specifications & Properties

# Hydrochloric Acid - Drilling Grade

CAS Number: : 7647-01-0

| Specifications | Limits                                    |
|----------------|-------------------------------------------|
| Density        | 1.639 g/l (gas, 0 c), 1.194 (liq., -26 c) |
| Color (APHA)   | 15.0 Max                                  |
| Calcium        | 2.0 ppm Max                               |
| Free Chlorine  | 3.0 ppm Max (as Cl <sub>2</sub> )         |
| Lead           | 0.2 ppm Max                               |
| Fluoride       | 2.0 ppm Max                               |
| Degrees Baumé  | 20.0 - 23.0                               |
| HCl Content    | 31.5 - 38.0% by weight                    |
| Arsenic        | 0.1 ppm Max                               |
| Iron           | 0.5 ppm Max                               |
| Sulfate        | 10.0 ppm Max                              |
| Bromide        | 50.0 ppm Max                              |



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| Specifications       | Limits                         |
|----------------------|--------------------------------|
| Organics             | 1.0 ppm Max                    |
| Non-Volatile Residue | 15.0 ppm Max                   |
| pH                   | 1.1 (0.1 n soln.)              |
| Insolubility         | in hydrocarbons                |
| Melting Point        | -114.3 c                       |
| Odor                 | pungent odor                   |
| Molecular weight     | 36.46                          |
| Color                | colorless fuming gas or liquid |
| Solubility           | water, alcohol, ether, benzene |
| Boiling Point        | -84.8 c                        |



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