

Hydrochloric Acid (HCL) 30-32%



Hydrochloric Acid (HCl) is a colorless to yellowish-green, clear corrosive liquid with a pungent, irritating odour.

It is completely soluble in water and Hydrochloric Acid gas mixed with water generate a violent exothermic reaction. Contact with most metals results in the formation of flammable hydrogen gas.

Hydrochloric Acid is used in numerous applications from water treatment to food processing.

Properties

Molecular Weight: 36.5g/mol

Boiling Point: 80°C(@conc.32%); 45°C@conc.37%)

Freezing Point: -42°C(@conc.32%); -29°C@conc.37%)

Vapor Pressure (at 20°C): 30hPa, at20°C(Concentration:32%), 200hPa, at20°C(Concentration:37%)

Liquid Density (Water = 1.0): 1.16 – 1.19kg/m³ (@20°C)

Vapor Density (Air = 1.0): 1.53kg/m³



Phone: +2033089936—+201204010451

Fax: +2033089937

Hotline: +201005289329

Email: medhat@aquamedegypt.com

www.aquamedegypt.com

Handling and Storage

Hydrochloric Acid is corrosive. It should be stored away from oxidizing agents and alkaline materials in a cool, dry, ventilated place. Although stable under normal conditions, Hydrochloric Acid reacts with metals to form explosive and flammable hydrogen gas. Adding water to Hydrochloric Acid produces a violent, exothermic reaction.

When fighting fires or acid spills, proper protective clothing and respiratory equipment should be utilized and unprotected personnel should be moved upwind of the area.

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General Information

Other commercial names:	Hydronium chloride, Hydrogen chloride, Muriatic acid, Chlorhydric Acid
Chemical formula :	HCl
Physical property:	Hydrochloric acid is a clear, pale, and highly odorous solution of hydrogen chloride (HCl) in water
Product type:	Industrial
Interactions:	It is a highly corrosive mineral acid and releases hydrogen in contact with some metals (flammable)
Production Process:	It can also be produced through the following methods: A. From chlorine and hydrogen / B. From electrolysis of salt
Storage:	Hydrochloric acid is usually shipped in steel tankers with antioxidant coatings or special types of plastic.

Technical Information

molecular mass	36.46 g/mol
Density	1.18 g/cm ³
melting point (38% solution)	-27.32 °C
Boiling point (38% solution)	48 °C
Acidic pKa	-8.0

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Packing

jerry can 25 Lit., 30 Lit.



Drums 220 Lit



IBC Tank 1000 Lit

