

Hydrochloric Acid

DESCRIPTION

HydroChloric Acid is produced by the photo chemical synthesis of Hydrogen and Chlorine which are generated as a by product during the production of Caustic Soda.

APPLICATIONS

Hydrochloric Acid (HCI) is commonly used in the process of water treatment, leaching, and as an analytical agent.

CHEMICAL NAME & FORMULA

Hydrochloric Acid

INPUT

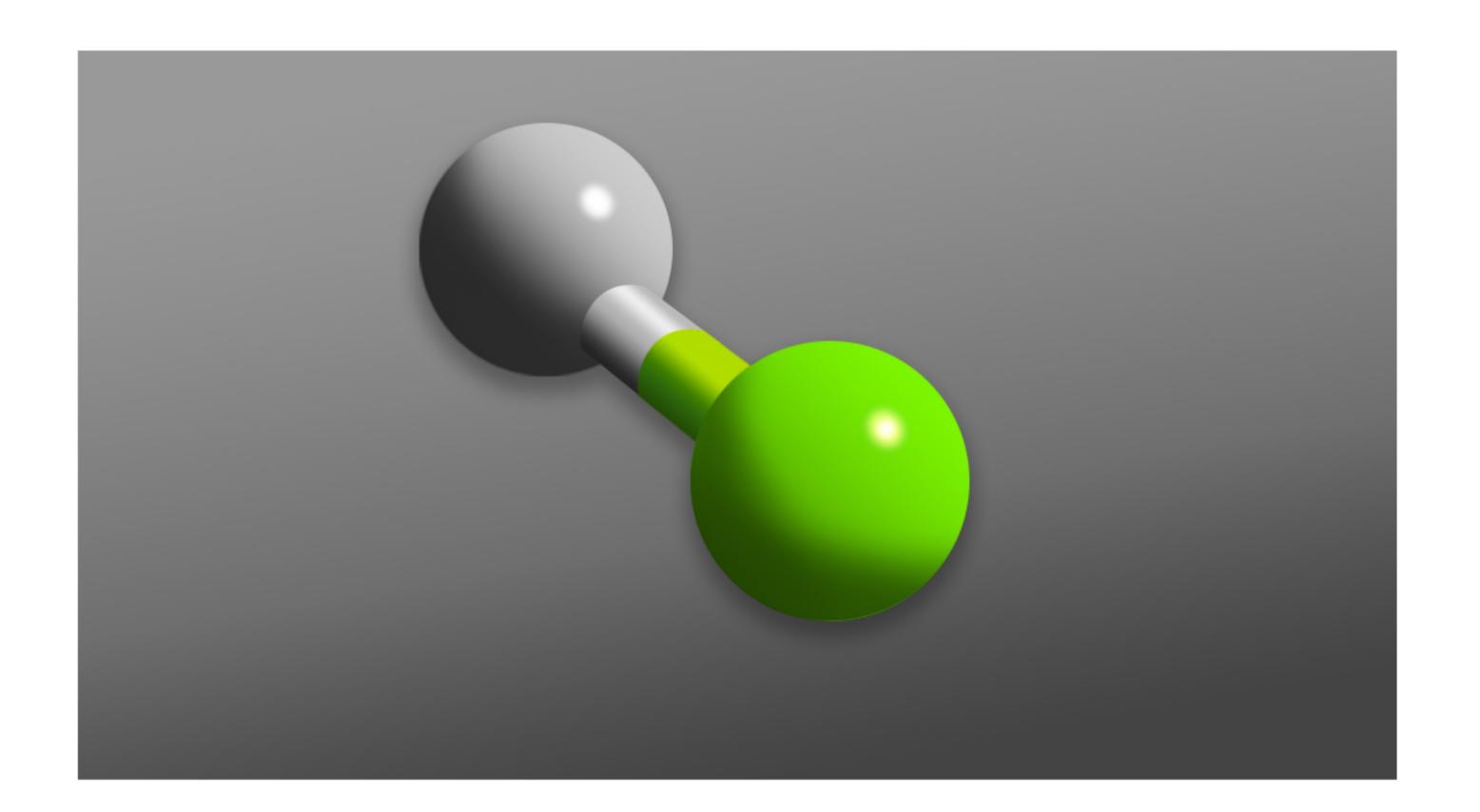
Hydrogen, Chlorine

CHEMICAL FORMATION

Aqueous Solution

OUTPUT

Hydrochloric Acid



Product Properties	
Description	Hydrochloric Acid
Appearance	Pale Yellow Liquid
Corrosive	Yes
Flammability	Not Flammable
Solubility	Soluble
Odour	Pungent
Boiling Point	-101.2°F (-74°C)
Melting Point	228.2°F (109°C)
Specific Gravity	1.15 at 27°C
Incompatibility	Reacts violently with strong alkalies

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Product Specifications	
Characteristics	Hydrochloric Acid (HCI)
Total Acidity (as HCI), % by mass	30 to 33 min.
Relative Density, at 27 / 27°C	1.145 to 1.150 min.
Free Chlorine (as CI), % by mass	0.004 max.

Related Information

PACKAGING & HANDLING

Hydrochloric Acid is packed in HMHDPE Barrels. It can also be transported in rubber lined tank trucks.

TRANSPORT CLASSIFICATION

U.N. No. 1017
 IMCO Class 2
 CAS 7782-50-5
 IMDG Page 2116

PRODUCT USAGES

Manufacturing of Trichloro & Perchloro Ethylene, Refrigeration, Sanitation, Pesticides, Paper and pulp, Textile Bleaching.



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Product Safety Data

Name of Product	Hydrochloric Acid
Composition / Components	Hydrochloric Acid above 30%
Hazard Identification	IMCO Class 8
First Aid Measures	If inhaled, move victim to fresh air area. In case of ingestion, have the victim drink water and milk. If eyes & skin are affected, flush with plenty of water for 15 Minutes. Seek medical aid.
Measures For Fire Fighting	Not a Fire Hazard.
First Aid Measures In Case Of Unintentional Release	Shut off leaks and drench with water. Do not use metal containers for the spilled liquid. Try to do water spray or contain liquid with sand.
Handling & Storage	Store in rubber lined or FRP coated steel tanks away from oxidizers in a well-ventilated place.
Exposure Limit & Staff Protection Equipment	Provide rubber hand-gloves, airline mask, chemical protective suit with self contained breathing apparatus.
Physical & Chemical Properties	Pale Yellow or clear liquid with stamp irritating odour. Sp. Gravity (water=1) is 1.14 - 1.15 Soluble in water, Ethyl Alcohol & Ethyl Ether
Stability & Reactivity	Chemically Stable. Reacts with most metals.
Information Of Toxicology	Toxic if inhaled or ingested.
Information About Waste Disposal	Transportable in rubber-lined or FRP coated tanks mounted on road trucks.
Information About Transport	Transportable on road trucks.
Information About Transport Statutory Regulatory Information	Transportable on road trucks. Shipping Name: Hydrochloric Acid Hazchem Code: 2 R Codes / Label Corrosive, Class 8

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