



## Wholesale Semiconductor & Oil & Gas Industry Uses HCl Gas Cylinder Hydrogen Chloride

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Hcl
- Minimum Order Quantity: 1kg
- Price: US \$ 15/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year



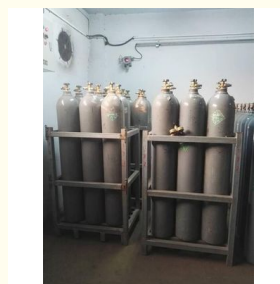
### Product Specification

- Product Name: Anhydrous Hydrogen Chloride
- Cylinder Standard: DOT/ISO/GB
- Cylinder Pressure: 42bar
- Purity: 99.999%
- Valve: Cga330
- Boiling Point: -85.1 °C
- Density: 1.477 Kg/M³
- Melting Point: -114.2 °C
- Transport Package: Sea Transportation
- Specification: 44L 100L 270L
- Trademark: CMC
- Origin: Suzhou, China
- HS Code: 28061000
- Supply Ability: 20000tons/Year
- CAS No.: 7647-01-0



**Hydrogen Chloride**

### More Images



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## Product Description

### Product Description

Hydrogen chloride (HCl) is a chemical compound composed of hydrogen and chlorine. It is a colorless gas with a strong, pungent odor. Hydrogen chloride is highly soluble in water, and when dissolved, it forms hydrochloric acid.

Here are some key points about hydrogen chloride:

Chemical Formula: HCl

Molecular Weight: 36.46 g/mol

Physical Properties: Hydrogen chloride is a gas at standard temperature and pressure. Its boiling point is -85.1 °C (-121.2 °F), and its melting point is -114.2 °C (-173.6 °F).

Chemical Properties: Hydrogen chloride is a highly reactive compound. It is a strong acid and dissociates completely in water, forming hydronium ions (H<sub>3</sub>O<sup>+</sup>) and chloride ions (Cl<sup>-</sup>). The chemical equation for the reaction is  $\text{HCl} + \text{H}_2\text{O} \rightarrow \text{H}_3\text{O}^+ + \text{Cl}^-$ .

Industrial Production: Hydrogen chloride is produced on a large scale by combining hydrogen gas (H<sub>2</sub>) and chlorine gas (Cl<sub>2</sub>) in the presence of a catalyst, such as activated carbon or platinum. The reaction is exothermic and typically occurs at high temperatures.

Uses: Hydrogen chloride has several applications in various industries. Some common uses include:

Production of hydrochloric acid: It is the primary source of hydrochloric acid, which is widely used in laboratory experiments, chemical synthesis, and industrial processes.

pH adjustment: Hydrochloric acid, derived from hydrogen chloride, is used to adjust the pH levels in swimming pools, water treatment plants, and other applications.

Metal cleaning and etching: Hydrogen chloride is used for cleaning and etching metals, such as steel and aluminum, in industrial processes.

Organic synthesis: It is used as a reagent in several chemical reactions for the production of organic compounds.

PVC production: Hydrogen chloride is a key ingredient in the production of polyvinyl chloride (PVC), a widely used plastic.

Safety Precautions: Hydrogen chloride is highly corrosive and can cause severe burns upon contact with the skin, eyes, or respiratory system. It is important to handle it with care, using appropriate protective equipment and working in well-ventilated areas.

It's worth noting that hydrogen chloride is also found naturally in volcanic gases and in the stomach as a component of gastric acid, aiding in the digestion of food.

#### Basic Info.

Molecular Weight	36.46	Density	1.477Kg/m <sup>3</sup>
Melting Point	-114.2°C	Boiling Point	-85.1°C
Appearance	Colorless,Pungent	Un No.	1050
DOT Class	2.3&8	Valve	CGA660
Cylinder Standard	GB/ISO/DOT	Cylinder Pressure	15Mpa/20Mpa
Transport Package	44L	Specification	99.9%
Trademark	CMC	Origin	China

Specification	Company Standard
HCL	≥ 99.9%
CO <sub>2</sub>	≤ 400 ppm
CO	≤ 60 ppm
N <sub>2</sub>	≤ 450 ppm
O <sub>2</sub> +AR	≤ 30 ppm
THC (as CH <sub>4</sub> )	≤ 5 ppm
Moisture	≤ 5 ppm

#### Detailed Photos



## Company Profile



Shanghai Kemike Chemical Co., Ltd is staffed by trained personnel, combine many years experience in Gas industry .We supply cylinder gas, electronic gas, etc ., and the gas holder, panel, valves and fittings and other equipment, parts and engineering services to our customers in China and worldwide; The products are involved in various industrial fields, such as semiconductor chip, solar cell, LED, TFT-LCD, optical fiber, glass, laser, medicine , etc., Our mission is to partner with our global customers to provide support, solutions and quality products that are innovative, reliable, and safe. Our products mainly include: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.

SiCl <sub>4</sub>	NH <sub>3</sub>	NH <sub>3</sub>	CH <sub>3</sub> F	SiH <sub>4</sub>	Kr	H <sub>2</sub> S	WF <sub>6</sub>	F <sub>6</sub> +Cl <sub>2</sub>
4MS	C <sub>3</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>8</sub>	TEOS	CH <sub>4</sub>	PH <sub>3</sub>	SF <sub>6</sub>	C <sub>2</sub>	HCl+Ne
CF <sub>4</sub>	C <sub>4</sub> F <sub>8</sub>	SiH <sub>2</sub>						TMB+H <sub>2</sub>
SiF <sub>4</sub>	C <sub>3</sub> H <sub>8</sub>	Cl <sub>2</sub>						He +As
BBr <sub>3</sub>	C <sub>3</sub> H <sub>6</sub>	DCE						Ge+Se
POCl <sub>3</sub>	N <sub>2</sub>	SO <sub>2</sub>						D+B
BCl <sub>3</sub>	D <sub>2</sub>	CO <sub>2</sub>						CO+NO
SiHCl <sub>3</sub>	CH <sub>2</sub> F <sub>2</sub>	HF						Ar+O <sub>2</sub>
TMAI	DMZn	DEZn						Xe+NO
AsH <sub>3</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>	HBr	COS	Ar+O <sub>2</sub>			
GeH <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	B <sub>2</sub> H <sub>6</sub>	H <sub>2</sub> Se	GeCl <sub>4</sub>	Xe+NO			





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