



Cylinder Gas China Factory High Purity manufacture semiconductors gas Boron trichloride

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Bcl3
- Minimum Order Quantity: 1kg
- Price: US \$200-2000/pc
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 30,000tons/year



Product Specification

- Product Name: Boron Trichloride
- Cylinder Pressure: 15MPa/20MPa
- Cylinder Standard: GB/ISO/DOT
- Valve: Cga660
- Appearance: Colorless
- Transport Package: 40L/47L/50L
- Specification: 40L/47L/50L
- Trademark: CMC
- Origin: China
- HS Code: 2812191090
- Supply Ability: 300,000tons/Year
- CAS No.: 10294-34-5
- Formula: Bcl3
- EINECS: 233-658-4
- Constituent: Industrial Pure Air



Boron Trichloride

More Images



Product Description

Product Description

Boron trichloride (BCl₃) is a chemical compound composed of one boron atom and three chlorine atoms. It is a colorless gas with a pungent odor.

BCl₃ is known for its Lewis acidity, meaning it readily accepts electron pairs from other molecules or ions. Here are some key points about BCl₃:

Chemical Formula: BCl₃

Molecular Weight: 117.17 g/mol

Physical Properties: Boron trichloride is a gas at room temperature and atmospheric pressure. It has a boiling point of -107.8 degrees Celsius (-162.0 degrees Fahrenheit) and a melting point of -107.8 degrees Celsius (-162.0 degrees Fahrenheit).

Odor: BCl₃ has a sharp and irritating odor.

Lewis Acidity: BCl₃ is a Lewis acid, meaning it can accept an electron pair from a Lewis base to form a coordinate covalent bond.

Reactivity: Boron trichloride reacts with water to form boric acid (H₃BO₃) and hydrochloric acid (HCl).

$\text{BCl}_3 + 3\text{H}_2\text{O} \rightarrow \text{H}_3\text{BO}_3 + 3\text{HCl}$

It also reacts with alcohols to form alkyl chlorides:

$\text{BCl}_3 + 3\text{ROH} \rightarrow \text{B(OR)}_3 + 3\text{HCl}$

Uses: BCl₃ is primarily used as a reagent in organic synthesis, particularly in the production of boron compounds. It is also utilized in the manufacture of semiconductors and as a catalyst in various chemical reactions.

Safety Precautions: Boron trichloride is a toxic and corrosive substance. It can cause severe burns and eye damage upon contact. Proper safety measures, including the use of protective equipment, should be followed when working with BCl₃.

Basic Info

Transport Package:	40L/47L/50L	Melting Point	-107.3°C
Trademark:	CMC	Boiling Point	12.5°C
Specification	99.90%	Production Capacity	300,000tons/Year
Cylinder Pressure	12.5MPa/15MPa/20MPa	Valve	Cga660
Appearance	Colorless Fuming Liquid or Gas with a Pungent Density		1.35 Kg/M3

Product Description

Specification:

Dot Class: 2.3
State: Liquid
Purity: 99.9%
UN NO: UN1741
CAS NO: 10294-34-5
Grade Standard: Industrial Grade

Specification	99.9%
Chlorine	≤ 10 ppm
Silicon Tetrachloride	≤ 300 ppm

Cylinder Specifications	Contents
Cylinder Capacity	Valve Weight
47L	CGA 660 50 kgs

Detailed Photo



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: H₂, O₂, N₂, Ar, CO₂, propane, acetylene, helium, laser mixed gas, SiH₄, SiH₂Cl₂, SiHCl₃, SiCl₄, NH₃, CF₄, NF₃, SF₆, HCl, N₂O, doping mixed gas (TMB, PH₃, B₂H₆) and other electronic gases.

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



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