Cylinder Gas China Factory High Purity manufacture semiconductors gas Boron trichloride

Our Product Introduction

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
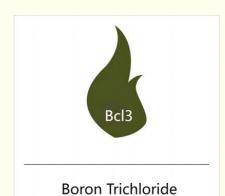- Supply Ability: 30,000tons/year

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

Bcl3

Boron Trichloride

More Images

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).

$BCl_3 + 3H_2O \rightarrow H_3BO_3 + 3HCl$

It also reacts with alcohols to form alkyl chlorides:

$BCl_3 + 3ROH \rightarrow B(OR)_3 + 3HCl$

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	-107.3ºC
Trademark:	CMC	Boiling Point	12.5ºC
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
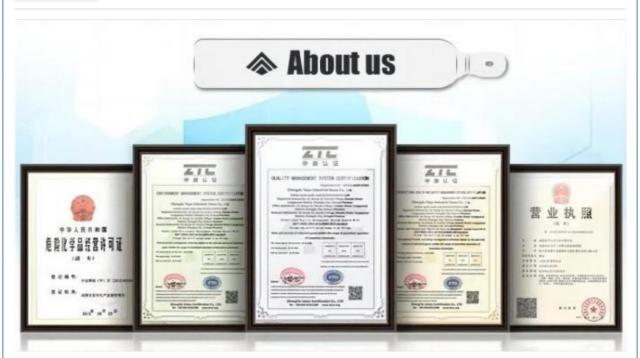Purity: 99.9%
UN NO:UN1741
CAS NO: 10294-34-5
Grade Standard: Industrial Grade

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.

SiCl4	NH3	NH3	CH3F	SiH4	Kr	H2S	WF6	F6+Cl2
4MS	C3F8	C3F8	TEOS	CH4	PH3	SF6	C2	HCl+Ne
CF4	C4F8	SiH2						TMB+H2
SiF4	C3H8	Cl2						He +As
BBr3	C3H6	DCE						Ge+Se
POCl3	N2	SO2						D+B
BCl3	D2	CO2						CO+NO
SiHCl3	CH2F2	HF	AsH3	C2H4	C2H2	HBr	COS	Ar+O2
TMAl	DMZn	DEZn	GeH4	C2H6	B2H6	H2Se	GeCl4	Xe+NO