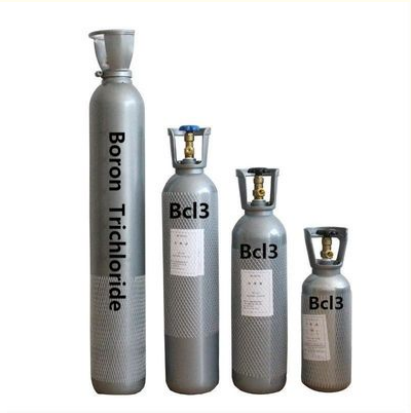
Factory high purity chemical synthesis flame retardant semiconductors Cylinder Gas Boron Trichloride

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Bcl3
- Minimum Order Quantity: 1kg
- Price: US $18
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 300,000tons/year



Product Specification

- Product Name: Boron Trichloride
- Valve: Cga660
- Cylinder Pressure: 15MPa/20MPa
- Appearance: Colorless Fuming Liquid Or Gas With A Pungent
- Model No.: Boron Trichloride
- Specification: 40L, 47L, 50L
- Trademark: CMC
- Origin: China
- HS Code: 28121910
- Supply Ability: 300, 000tons/Year
- CAS No.: 10294-34-5
- Formula: Bcl3
- EINECS: 233-658-4
- Constituent: Industrial Pure Air

More Images

Our Product Introduction

for more products please visit us on gascylindertank.com

Product Description

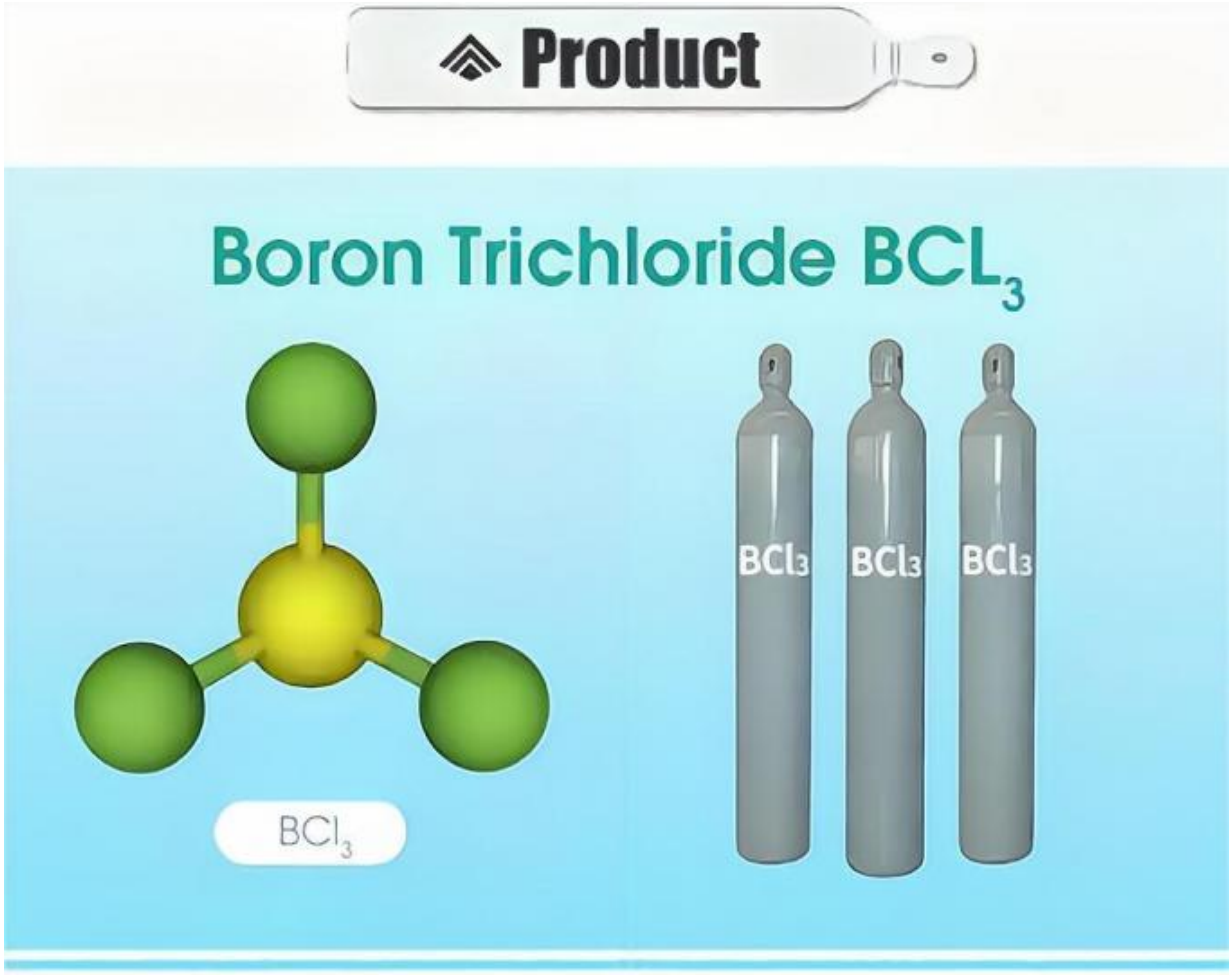
Factory high purity chemical synthesis flame retardant semiconductors Cylinder Gas Boron Trichloride

Boron trichloride (BCl3) is a chemical compound composed of one boron atom and three chlorine atoms. It is a colorless, toxic gas that has a pungent odor. Boron trichloride is known for its chemical reactivity and is widely used in various industrial applications.
Here are some key points about boron trichloride:
1. Structure: Boron trichloride has a trigonal planar molecular geometry, where the boron atom is at the center and the three chlorine atoms are arranged around it.
2. Preparation: Boron trichloride can be prepared by the reaction of boron oxide (B2O3) with carbon and chlorine gas. The reaction typically occurs at high temperatures:
B2O3 + 3Cl2 + C → 2BCl3 + CO2
3. Physical properties: Boron trichloride is a gas at room temperature and has a boiling point of around -18 °C (-0.4 °F). It is highly soluble in organic solvents such as benzene and carbon tetrachloride but is immiscible with water.
4. Chemical reactivity: BCl3 is a Lewis acid, which means it can accept an electron pair from a Lewis base. It reacts readily with compounds containing lone pairs of electrons. It can react with water to form boric acid and hydrochloric acid:
BCl3 + 3H2O → B(OH)3 + 3HCl
The reaction of boron trichloride with alcohols or amines can lead to the formation of alkyl or aryl borates or boron-containing compounds.
5. Uses: Boron trichloride finds several applications in various industries. Some common uses include:
- Catalyst: It is used as a catalyst in organic synthesis, especially in the production of polymers and plastics.
- Chemical synthesis: BCl3 is used in the synthesis of boron compounds, such as boron nitride and boron carbide.
- Etching: It is employed in the semiconductor industry for etching silicon wafers during the production of integrated circuits.
- Flame retardant: Boron trichloride is sometimes used as a flame retardant additive in plastics and textiles.
- Laboratory reagent: It serves as a reagent in various chemical reactions carried out in laboratories.
It is important to note that boron trichloride is a highly reactive and toxic gas. Proper safety precautions, including the use of appropriate ventilation and personal protective equipment, should be followed when handling or working with this compound.

Basic Info.

Model NO.	Bcl3 Gas	DOT Class	2.3 & 8
Un No	1741	Cylinder Standard	GB/ISO/DOT
Cylinder Pressure	15MPa/20MPa	Valve	Cga660
Melting Point	-107.3 ºC	Appearance	Colorless Fuming Liquid or Gas with a Pungent
Boiling Point	12.5 ºC	Density	1.35 Kg/M³
Molecular Weight	117.19	Transport Package	40L, 47L, 50L
Specification	99.9%, 99.999%	Trademark	CMC
Origin	China	HS Code	28121910
Production Capacity	300, 000tons/Year		

Product Description



Specification:

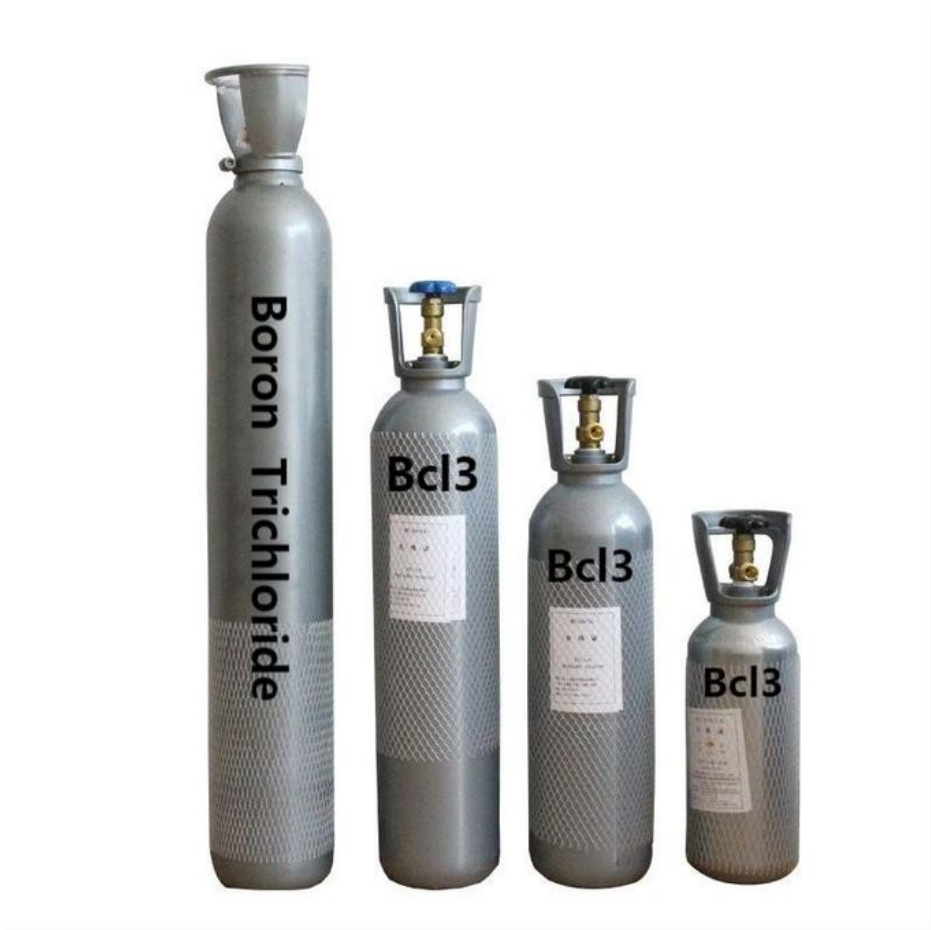
Dot Class: 2.3
State: Liquid
Purity: 99.9%
UN NO:UN1741
CAS NO: 10294-34-5
Grade Standard: Industrial Grade

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

Packaging & Shipping

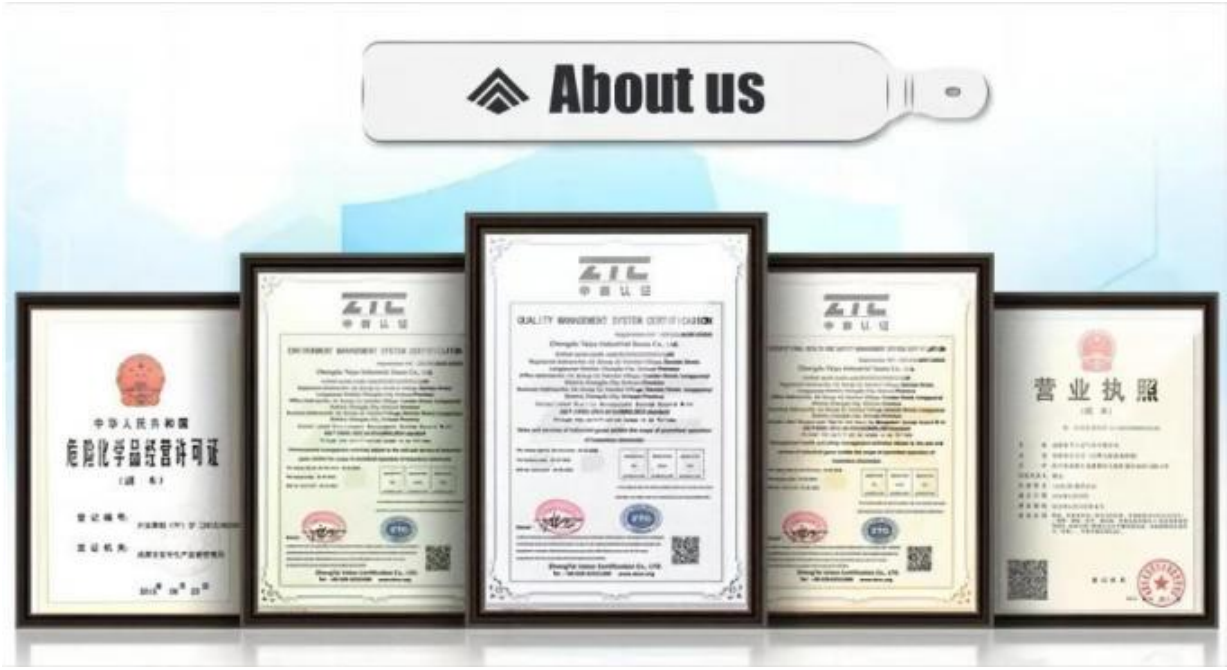
Cylinder Specifications		Contents
Cylinder Capacity	Valve	Weight
47L	CGA 660	50 kgs

Detailed Photos



Our Advantages

1. Our factory produces propane from high quality raw material,besides the price is cheap.
2. The propane is produced after many times procedures of purification and rectification in our factory.The online control system insure the gas purity every stage.The finished product must meet the standard.
3. During the filling, the cylinder should firstly be dried for a longtime(at least 16hrs),then we vacuumize the cylinder, finally we displace it with the original gas.All these methods make sure that the gas is pure in the cylinder.



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

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