



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



Boron Trichloride

More Images



Product Description

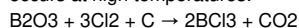
Factory high purity chemical synthesis flame retardant semiconductors Cylinder Gas Boron Trichloride

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:

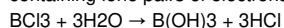
1. Structure: Boron trichloride has a trigonal planar molecular geometry, where the boron atom is at the center and the three chlorine atoms are arranged around it.

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:



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:



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.

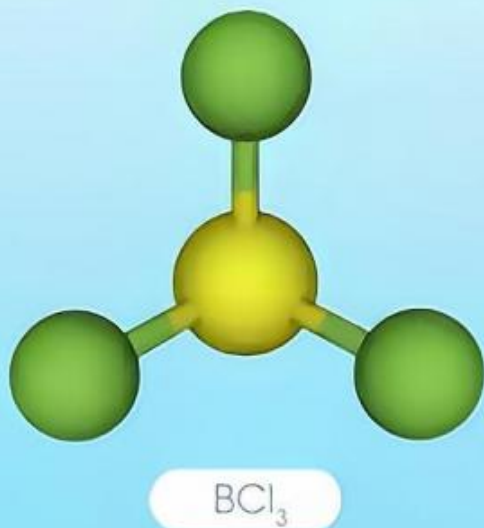
Model NO.	Bcl3 Gas	DOT Class	2.3 & 8
Un No	1741	Cylinder Standard	GB/ISO/DOT
Cylinder Pressure	15MPa/20MPa	Valve	Cga660
Melting Point	-107.3 °C	Appearance	Colorless Fuming Liquid or Gas with a Pungent
Boiling Point	12.5 °C	Density	1.35 Kg/M³
Molecular Weight	117.19	Transport Package	40L, 47L, 50L
Specification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

Product Description



Product

Boron Trichloride BCl₃



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.

About us



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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