



China high purity best price Cylinder Gas Bcl3 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 \$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
- Cylinder Standard: GB/ISO/DOT
- Boiling Point: 12.5°C
- Melting Point: -107.3°C
- Density: 1.35 Kg/M³
- Valve: Cga660
- Cylinder Pressure: 15MPa/20MPa
- 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



More Images



Product Description

Product Description

Boron trichloride, or 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 can accept an electron pair from a Lewis base.

Here are some key points about BCl₃:

Structure: BCl₃ has a trigonal planar molecular geometry, with the boron atom at the center and the three chlorine atoms surrounding it. The bond angles between the boron and chlorine atoms are approximately 120 degrees.

Preparation: Boron trichloride can be prepared by reacting boron oxide (B₂O₃) with carbon and chlorine gas at high temperatures. The reaction is as follows:



Uses: BCl₃ has various applications in different industries:

It is used as a catalyst in organic synthesis reactions, such as the Friedel-Crafts acylation and alkylation reactions.

BCl₃ is employed in the production of semiconductors as a dopant and etchant.

It is also utilized in the manufacturing of boron nitride, a compound with high thermal stability.

Reactivity: Boron trichloride is a highly reactive compound. It readily reacts with water to form hydrochloric acid (HCl) and boric acid (H₃BO₃). The reaction with water is exothermic and can release heat. BCl₃ reacts vigorously with bases and can form boron compounds, such as borates, when treated with alkaline solutions.

Safety precautions: BCl₃ is toxic and corrosive. It reacts violently with oxidizing agents and can cause severe burns on contact with the skin or eyes. It should be handled with extreme caution in a well-ventilated area, and appropriate protective equipment, such as gloves and goggles, should be worn when working with this compound.

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/M

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 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: 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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