



Cylinder Gas China Best Price Semiconductor processing gas Bcl3 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 \$300-1000/PC
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 300,000tons/year



Product Specification

- Product Name: Boron Trichloride
- Boiling Point: 12.5°C
- Cylinder Standard: GB/ISO/DOT
- Melting Point: -107.3°C
- Density: 1.35 Kg/M³
- 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
- EINECS: 233-658-4



More Images



Product Description

Product Description

Boron trichloride, commonly abbreviated as 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 strong Lewis acidity and is widely used in various industrial applications.

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 arranged symmetrically around it.

Production: BCl₃ can be produced by reacting boron oxide (B₂O₃) with chlorine gas (Cl₂) or by the direct combination of boron and chlorine at high temperatures.

Properties: BCl₃ is highly reactive and readily reacts with water vapor in the air to form hydrochloric acid (HCl) and boric acid (H₃BO₃). It is also reactive with many organic compounds.

Applications:

Catalyst: BCl₃ is commonly used as a Lewis acid catalyst in various chemical reactions, such as the Friedel-Crafts acylation and alkylation reactions.

Semiconductor processing: BCl₃ is utilized in the semiconductor industry for etching and cleaning silicon wafers.

Metal organic chemical vapor deposition (MOCVD): It is used as a precursor in the deposition of boron-containing films, such as boron nitride and boron carbide.

Polymer synthesis: BCl₃ can be employed as a catalyst in the production of certain polymers.

Safety considerations: BCl₃ is highly toxic if inhaled or ingested. It can cause severe irritation to the eyes, skin, and respiratory system. Proper safety precautions, such as adequate ventilation and personal protective equipment, should be followed when handling BCl₃.

Basic Info

Transport Package: 40L/47L/50L

Trademark: CMC

Specification 99.90%

Cylinder Pressure 12.5MPa/15MPa/20MPa

Appearance Colorless Fuming Liquid or Gas with a Pungent

Melting Point -107.3°C

Boiling Point 12.5°C

Production Capacity 300,000tons/Year

Valve Cga660

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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