



Semiconductor Cylinder Gas flame retardant materials production Bcl3 Boron Trichloride Gas

Our Product Introduction

for more products please visit us on gascylindertank.com

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



Boron Trichloride

Product Specification

- Product Name: Boron Trichloride
- Cylinder Pressure: 15MPa/20MPa
- Cylinder Standard: GB/ISO/DOT
- Valve: Cga660
- Appearance: Colorless Fuming Liquid Or Gas With A Pungent
- Transport Package: Cylinder
- 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



More Images



Product Description

Semiconductor Bcl3 Specialty Gas Cylinder 50L Industrial Grade

Boron trichloride, commonly abbreviated as BCl₃, is a chemical compound composed of one boron atom and three chlorine atoms. It is a colorless gas at room temperature and is known for its highly reactive nature.

Here are some key properties and uses of BCl₃:

Physical Properties: Boron trichloride is a nonpolar molecule with a trigonal planar molecular geometry. It has a boiling point of around 12.5 degrees Celsius (54.5 degrees Fahrenheit) and a melting point of -107.2 degrees Celsius (-161 degrees Fahrenheit). It is soluble in organic solvents such as benzene and carbon tetrachloride.

Chemical Reactivity: BCl₃ is a highly reactive compound, readily reacting with various substances. It is a Lewis acid, meaning it can accept an electron pair from a Lewis base. It reacts violently with water, releasing hydrogen chloride gas and forming boric acid. It also reacts with alcohols, amines, and other organic compounds.

Industrial Uses: BCl₃ finds applications in several industrial processes, including:

Chemical Synthesis: It is used as a catalyst or reagent in the production of various organic compounds, such as pharmaceuticals, polymers, and dyes.

Plasma Etching: BCl₃ is utilized in the semiconductor industry for plasma etching processes. It selectively removes layers of material from the surface of semiconductors to create precise patterns and structures.

Flame Retardants: It is employed in the production of flame retardant materials, particularly for plastics and textiles.

Safety Considerations: Boron trichloride is a toxic and corrosive substance. It can cause severe burns upon contact with the skin, eyes, or respiratory system. Inhalation of BCl₃ gas can lead to respiratory irritation and lung damage. Proper precautions, such as working in a well-ventilated area and using appropriate personal protective equipment, should be taken when handling this compound.

Basic Info.

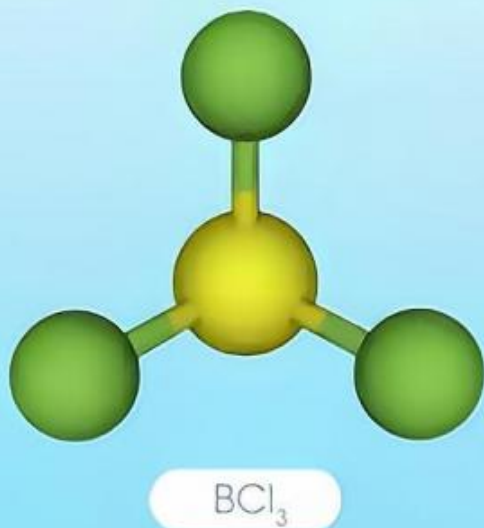
| | | | |
|---------------------|-------------------|-------------------|---|
| Model NO. | Bcl3 Gas | DOT Class | 2.3 & 8 |
| Un No | 1741 | Cylinder Standard | GB/ISO/DOT |
| Cylinder Pressure | 15MPa/20MPa | Valve | Cga660 |
| Melting Point | -107.3 °C | Appearance | Colorless Fuming Liquid or Gas 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





Boron Trichloride



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 | | | |



 Shanghai Kemike Chemical Co.,Ltd

 +86 18762990415

 williamchen@cmc-chemical.com

 gascylindertank.com