China

CMC

COA

Bcl3

Cylinder

Boron Trichloride

GB/ISO/DOT

China

Bcl3

2812191090

10294-34-5

300, 000tons/Year

China high purity best price Cylinder Gas Bcl3 Gas Boron Trichloride

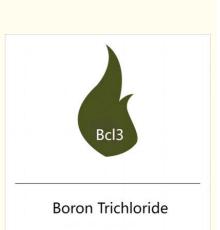
Basic Information

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

Product Specification

- Product Name:
- Cylinder Standard:
 - 12
- Boiling Point:Melting Point:
- Density:
- Valve:
- Cylinder Pressure:
- Transport Package:
- Specification:
- Trademark:
- Origin:
- HS Code:
- Supply Ability:
- CAS No.:
- Formula:





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:

B2O3 + 3C + 3Cl2 → 2BCl3 + 3CO

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: Trademark:	40L/47L/50L CMC	Melting Point Boiling Point	-107.3ºC 12.5ºC
Specification	99.90%	Production Capacity	300, 000tons/Year
Cylinder Pressure	e 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

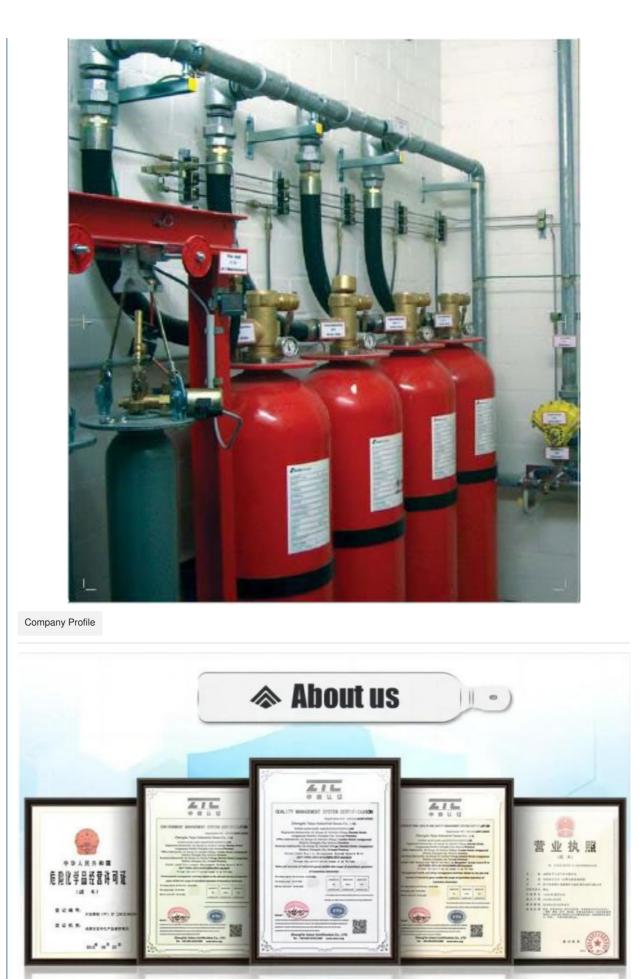
Specification 99.9%

Chlorine ≤ 10 ppm Silicon Tetrachloride≤ 300 ppm

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

Detailed Photos





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.



Shanghai Kemike Chemical Co.,Ltd

€ +86 18762990415 € williamchen@cmc-chemical.com

gascylindertank.com