

Cylinder Gas China Best Price Semiconductor processing gas Bcl3 Boron Trichloride

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

Trademark: CMC
 Origin: China
 HS Code: 2812191090
 Supply Ability: 300, 000tons/Year
 CAS No.: 10294-34-5

40L/47L/50L

Formula: Bcl3EINECS: 233-658-4



More Images

Specification:









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

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

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 Melting Point -107.3ºC Trademark: CMC **Boiling Point** 12.5ºC

Production Specification 99.90% 300, 000tons/Year Capacity

Cylinder Pressure 12.5MPa/15MPa/20MPa Valve Cga660

Colorless Fuming Liquid or Gas with a Density 1.35 Kg/M **Appearance**

Pungent

Specification:

Dot Class: 2.3 State: Liquid Purity: 99.9% UN NO:UN1741 CAS NO: 10294-34-5

Grade Standard: Industrial Grade

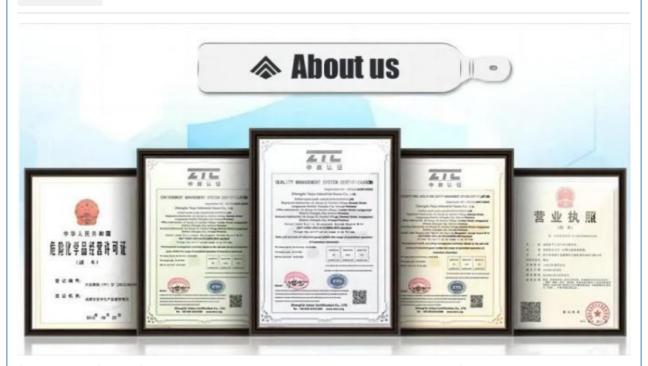
Specification 99.9% Chlorine ≤ 10 ppm Silicon Tetrachloride≤ 300 ppm

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.

CH3F SiH4 H₂S WF6 F6+CI2 SiCI4 NH3 NH₃ Kr

C3F8 C3F8 **TEOS** CH4 PH₃ SF6 C2 HCI+Ne 4MS

CF4 C4F8 SiH₂

SiF4 **C3H8** CI2

DCE BBr3 **C3H6**

SO2 POCI3 N₂

BCI3 D2 CO2

COS SiHCI3 CH2F2 HF AsH3 **C2H4** C2H2 HBr Ar+O2

GeH4 **C2H6** H2Se GeCl4 Xe+NO DEZn **B2H6** TMAI **DMZn**







TMB+H2

He +As

Ge+Se

D+B

CO+NO