China organic synthesis reagent and catalyst semiconductor industry Cylinder gas Boron Trichloride

Our Product Introduction

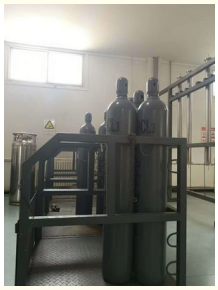
Basic Information

- 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
- Boiling Point: 12.5ºC
- Cylinder Standard: GB/ISO/DOT
- Melting Point: -107.3ºC
- Valve: Cga660
- Cylinder Pressure: 15MPa/20MPa
- Appearance: Colorless Fuming Liquid Or Gas With A Pungent
- Transport Package: Sea Transportation
- Specification: 40L/47L/50L
- Trademark: CMC
- Origin: China
- HS Code: 2812191090
- Supply Ability: 300, 000tons/Year
- CAS No.: 10294-34-5

More Images



Our Product Introduction

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Product Description

Electronic Grade 6n Boron Trichloride BCL3 Gas 50kg Per Cylinder

Boron trichloride, also known as BCl3, is a chemical compound composed of one boron atom and three chlorine atoms. It is a colorless, toxic gas with a pungent odor. BCl3 is commonly used in various industrial applications, primarily as a reagent and catalyst in organic synthesis.

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 molecule has a total of 24 valence electrons.

Preparation: Boron trichloride can be prepared by reacting boron oxide (B2O3) or boron carbide (B4C) with chlorine gas (Cl2).

Physical properties: BCl3 is a gas at room temperature and atmospheric pressure. It has a boiling point of -107.8 degrees Celsius (-162 degrees Fahrenheit) and a melting point of -107.8 degrees Celsius (-162 degrees Fahrenheit).

Chemical properties: BCl3 is highly reactive due to the presence of the empty p-orbital on the boron atom. It readily reacts with various nucleophiles and Lewis bases. For example, it reacts with water to form boric acid (H3BO3) and hydrochloric acid (HCl).

Uses: BCl3 is primarily used as a reagent and catalyst in organic synthesis. It can be used to introduce the boron atom into organic molecules, such as in the formation of boronic acids. It is also employed in the production of boron-doped semiconductors, as a component of plasma etching gases in the semiconductor industry, and as a fluorine source in the manufacturing of fluorocarbons.

Safety considerations: Boron trichloride is toxic and corrosive. It can cause severe burns upon contact with the skin, eyes, or respiratory system. Proper safety precautions, such as the use of protective equipment and working in a well-ventilated area, should be followed when handling BCl3.

Basic Info

Transport Package:	40L/47L/50L	Melting Point	-107.3ºC
Trademark:	CMC	Boiling Point	12.5ºC
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/M3

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 Photo

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.

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