

BCl₃



Properties: Boron trichloride is a colorless gas with a pungent odor. Corrosive, reacts with a wide range of organic and inorganic substances.

Uses: Key electronic specialty gas in the omniseiconductor industry.

· Identifier

Chemical Formula	BCl ₃
CAS No.	10294-34-5
EINECS No.	233-658-4

· Physical and chemical properties

Molecular weight	117.17 g/mol	Flash point	28.8°C	Reactivity	Unstable, severe reaction with water
Appearance	Colorless gas	Melting point	-107°C	Solubility	Hydrolyzed hydrogen chloride and boric acid in water
Density	1.326 g/cm ³	Boiling point	12.5°C	Storage	Shady and cool, well-ventilated

· Non-metal impurities

Content	Unit	Specification
O ₂	ppm	≤0.5
N ₂	ppm	≤1.0
CO	ppm	≤0.6
CO ₂	ppm	≤1.0

· Metal impurities

Project	Unit	Specification	Project	Unit	Specification
Al	ppb	≤100	Mn	ppb	≤100
Ca	ppb	≤100	Na	ppb	≤100
Cr	ppb	≤100	Ni	ppb	≤100
Cu	ppb	≤100	Si	ppb	≤100
K	ppb	≤100	Zn	ppb	≤100
Mg	ppb	≤100	Fe	ppb	≤100

VITAL MICRO-ELECTRONICS TECHNOLOGY CO., LIMITED

High Purity Materials Production Plant: No.16, Chuangxing Third Road, Qingyuan, Guangdong China 511517

Tel: 0763-3993123 Fax: (86) 020 - 83511907 Website: www.vitalchem.com

E-mail: semi_sales@vitalchem.com

