

2% B₂H₆/H₂ mixed gas

Properties: DIBORANE (borane compound, B₂H₆) is a colorless gas with an irritating odor. It can be dissolved in solvents such as carbon disulfide, ethane, pentane, ether, etc. It burns explosively when it meets moist air, releasing green flame and generating boron oxide and water.

Uses: Used to produce UHP boron, raw materials of the semiconductor industry and the high-energy fuel gas for missiles and rockets.

• Identifier

Chemical Formula	B ₂ H ₆
CAS No.	19287-45-7
EINECS No.	242-940-6

• Physical and chemical properties

Molecular weight	27.67 g/mol	Flash point	-90°C	Reactivity	Can be spontaneous in the air
Appearance	Colorless gas	Melting point	-165°C	Solubility	Easy to dissolve in carbonide
Density	1.18 g/cm ³	Boiling point	-92.5°C	Storage	Shady and cool, well-ventilated

• MIXED GAS

Content	Unit	Specification
Diborane Concentration	Vol%	2 ± 0.1
Hydrogen Concentration	/	Balance

• B₂H₆

Project	Unit	Specification	Project	Unit	Specification
CO ₂	ppmv	≤1	CO ₂	ppmv	≤2
N ₂	ppmv	≤3	CH ₄	ppmv	≤4
CO	ppmv	≤1	H ₂ O	ppmv	≤1

• H₂

Project	Unit	Specification	Project	Unit	Specification
O ₂	ppmv	≤0.1	CO ₂	ppmv	≤0.1
N ₂	ppmv	≤0.2	CH ₄	ppmv	≤0.1
CO	ppmv	≤0.1	H ₂ O	ppmv	≤0.5

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