

H₂Se

Properties: Hydrogen selenide is a colorless gas with an irritating odor, flammable and toxic. It is thermally unstable, decomposes at about 160 °C, and oxidizes to precipitate red selenium under air conditions. It is often liquefied and transported under specific pressure.

Uses: It is used in electronic specialty gases for the omnisemiconductor industry and making for infrared materials.

· Identifier

Chemical Formula	H ₂ Se
CAS No.	7783-07-5
EINECS No.	231-978-9

· Physical and chemical properties

Molecular weight	80.98 g/mol	Flash point	<-50 °C	Reactivity	Stable, highly flammable
Appearance	Colorless and toxic gas	Melting point	-65.7 °C	Solubility	Easy to dissolve in water carbonide
Density	3.553 g/cm ³	Boiling point	-41.3 °C	Storage	Shady and cool, well-ventilated

· Package specification

Cylinder size	47.5 L Aluminum Cylinder	Valve connection	CGA 350 Steel
Fill weight(lbs)	99.2	Cylinder dimensions(in)	9.3*54.1
Fill weight(kgs)	45	Cylinder dimensions(cm)	25

· Impurities

Content	Unit	Specification
CO ₂	ppmv	≤5
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N ₂	ppmv	≤5
O ₂	ppmv	≤5
H ₂ O	ppmv	≤10
GeH ₄	ppmv	≤1
H ₂ S	ppmv	≤10

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

