

## Hydrogen (H<sub>2</sub>)

### Overview:

The lightest element. It's a colorless, odorless, tasteless, flammable gas. Hydrogen is widely used in petroleum refining processes, such as hydro-treating, catalytic reforming and hydro-cracking. It's a raw material for many chemical processes ranging from manufacturing high-density polyethylene and polypropylene resins to the hydrogenation of food-grade oils. Hydrogen is also used as a reducing gas in metals processing operations.

Purity Specification	Min Purity	Impurities
Industrial Grade	>99.8%	<0.02%
High Purity Grade	>99.95%	<0.05%

NFPA Rating			
0	4	0	

### Hazard Sign

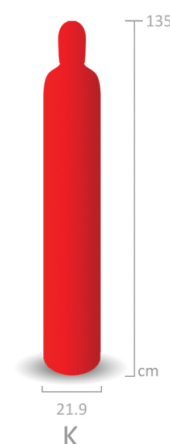


Product Details	Products Specifications					Cylinder Information			
	Cylinder Size	Cylinder Volume	Valve/ Pressure	Standard Valve -- Outlet (CGA)	Product Number	Purity	CAS Number	Cylinder Color	Identification Number
Industrial Grade	K	40 Ltr.	2,000 PSI	350	DG009G	>99.8%	1333-74-0	Red	UN 1049
High Purity Grade	K	40 Ltr.	2,000 PSI	350	DG009G	>99.95%	1333-74-0	Red	UN 1049

\* Certificate of Conformance will be provided upon request.

### Technical Data & Transporting Information

Appearance	Colorless gas.
Odor	Odorless.
Physical State	Gas at temperature and pressure.
Melting Point at 1 atm	-434.56°F (-259.2°C)
Boiling Point at 1 atm	-422.97°F (-252.76°C)
Flammability	Flammable.
DOT Name	Hydrogen.
DOT Hazard Class	2.1
DOT Label	Flammable Gas.
Molecular Formula	H <sub>2</sub>



### Cylinder Color