

## Hydrogen

A colorless, odorless, flammable gas.

Technical Information:		Shipping Information:		
Chemical Symbol:	H <sub>2</sub>	DOT Proper Name:	Hydrogen, Compressed	
Molecular Weight:	2.02	Hazard Class:	2.1	
Specific Volume	192 ft <sup>3</sup> /lb (11.9 m <sup>3</sup> /kg)	I.D. Number:	UN 1049	
CAS Registry Number:	1333-74-0	Labels:	Flammable Gas	

  

Grade	Purity	Impurity	Specification	Equipment Recommended
<b>PurityPlus 6.0 (Research)</b>	99.9996%	Oxygen Moisture Nitrogen THC CO/CO <sub>2</sub>	< 0.2 ppm < 0.5 ppm < 0.3 ppm < 0.1 ppm < 0.1 ppm	Regulator with stainless steel bar stock body, SS diaphragm
<b>PurityPlus 5.5 (Chromatograph)</b>	99.9995%	Oxygen Moisture Nitrogen Methane Carbon Dioxide Carbon Monoxide	< 0.5 ppm < 2 ppm < 2 ppm < 0.2 ppm < 0.1 ppm < 0.2 ppm	Regulator with brass bar stock body, SS diaphragm
<b>PurityPlus 5.0 (Ultra High Purity)</b>	99.999%	Oxygen Moisture Nitrogen Total Hydrocarbons	< 1 ppm < 2 ppm < 5 ppm < 0.5 ppm	Regulator with brass bar stock body, SS diaphragm
<b>PurityPlus Zero 4.5</b>	99.995%	Total Hydrocarbons	< 0.5 ppm	Regulator with brass bar stock body, SS diaphragm
<b>PurityPlus 4.0 (Prepurified)</b>	99.99%	Moisture Oxygen	< 10 ppm < 20 ppm	Regulator with brass bar stock body, SS diaphragm
<b>PurityPlus 3.7 (Fuel Cell)</b>	99.97%	Moisture Oxygen Helium N <sub>2</sub> /Ar Carbon Dioxide Carbon Monoxide Ammonia Total Sulfurs Formaldehyde Formic Acid Total Hydrocarbons (Non-Methane)	< 5 ppm < 5 ppm < 300 ppm < 100 ppm < 2 ppm < 0.2 ppm < 0.1 ppm < 0.004 ppm < 0.01 ppm < 0.2 ppm < 2 ppm	Regulator with brass bar stock body, SS diaphragm

See page 4.1 for PurityPlus Co-Branded Equipment Catalog.

Standard Cylinder Sizes *	Contents ft <sup>3</sup> /m <sup>3</sup>	Cylinder Pressure PSIG	CGA Valve Connection
300	261	2400	350
200	195	2000	350
80	71	2000	350

\*Nonstandard cylinder sizes available upon request.

[purityplusgases.com](http://purityplusgases.com)