

Hydrogen Gas

Product Fact sheet

| Specifications | |
|------------------------------------|------|
| Hydrogen % by Mass Vol. Min | 99.6 |
| Oxygen % by Volume Max. | 0.3 |
| Nitrogen % by Volume Max. | 0.1 |
| Water Vapour mg/m ³ Max | 50 |
| Mercury mg/m ³ Max. | 0.2 |

| | |
|------------------------------------|---|
| Molecular Formulae: H ₂ | CAS Number: 1333-74-0 |
| Molecular Weight: 2.02 | Hazards: High Pressure and Flammability |
| Specific Volume: 192 cf/lb @ NTP | Critical Temperature: -399.8°F |
| Boiling Point: -423°F @ 1 atm | Critical Pressure: 190.8 psia |

Applications

- Hydrogenation of edible oils for manufacture of Vanaspati and non-edible oils for manufacture of soaps
- Hydrogenation of petro-products for the manufacture of Hard lubricants
- Sintering in the manufacture of Tungsten Carbide tool bits and in Powder Metallurgy
- For underwater gas cutting and for plasma cutting
- For the manufacture of Hydrogen Peroxide
- Rocket propulsion
- Reducing atmosphere in furnaces with or without Nitrogen
- In bright annealing of Copper and Stainless Steel

Packaging: It is packed and transported in 6 meter cube cylinders.

Other Details

ITC Classification: 28041000

UN No. 1049

IMO Classification: 2.1 – Inflammable