



Air Liquide produces and delivers hydrogen in total safety, in a mode of supply to suit our customer's needs: cylinder, tube trailer or on-site production

• **Applications**

- Metals heat treatment
- Desulfurizing of petroleum-based fuels
- Glass treatment
- Fuel cells

• **Transport information**

Compressed gas

- Proper shipping name: Hydrogen, compressed
- UN Nr: 1049
- ADR/RID: Class 2 Classification Code 1 F



• **Physical information**

- Molecular weight: 2.016 g/mol
- Relative density, gas: 0.07 (air=1)
- CAS number: 1333-74-0

• **Properties**

- Hazards identification: extremely flammable
- Flammability range: 4 - 75 vol% in air
- Personal protection: ensure adequate ventilation, do not smoke while handling product.

• **Cylinder equipment**

- Valve: CGA 350
- Cylinder color: Red

• **Safety Data sheets**

Access: <https://www.airliquide.com/safety-data-sheets>

• **Product Specification**

| Components (% Vol. abs) | Impurities (ppm v/v) | Supply mode | Packaging size | Pressure (bar) | *Capacity (Sm ³) |
|-------------------------|--|-------------|----------------|----------------|------------------------------|
| H ₂ | | | | | |
| ≥ 99.95% | H ₂ O ≤ 10 O ₂ ≤ 10 | Crate 16 | 50L | 200 | 162 |

*Typical capacities of the product are guaranteed for each cylinder in particular.





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|-------------------------|----------------------|-------------|----------------|----------------|-----------------|
| H2 | | | | | |
| ≥ 99.995% | H2O ≤ 5 | Cylinder | 47L | 150 | 7 |
| | O2 ≤ 5 | Cylinder | 50L | 150 | 7.5 |
| | | Crate 16 | 50L | 200 | 162 |

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HYDROGEN UHP



*the simple solution to enhance your analytical performance
the commitment to quality for % to ppm analysis*

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|-------------------------|----------------------|-------------|----------------|----------------|-----------------|
| H2 | | | | | |
| ≥ 99.999% | H2O ≤ 3 | Cylinder | 47L | 150 | 7 |
| | O2 ≤ 2 | Cylinder | 50L | 150 | 7.5 |
| | CnHm ≤ 1 | **Crate 9 | 50L | 200 | 90 |
| | | Crate 16 | 50L | 200 | 162 |

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** On special request



ALPHAGAZ 1 HYDROGEN

H₂

Air Liquide's Gas Encyclopedia : <https://encyclopedia.airliquide.com/hydrogen>



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|-------------------------|----------------------|-------------|----------------|----------------|-----------------|
| H2 | | | | | |
| ≥ 99.999% | O2 ≤ 2 | Cylinder | 50L | 200 | 10 |
| | H2O ≤ 2 | **Crate 8 | 50L | 200 | 81 |
| | CnHm ≤ 0.5 | | | | |
| | CO2. ≤ 0.5 | | | | |
| | CO ≤ 0.5 | | | | |

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** On demand



DISCLAIMER

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