

# HELIUM BALLOON

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



Leader on the market, thanks to a portfolio of diverse sources, Air Liquide offers reliable, enduring and safe helium product delivery everywhere

- **Applications**  
 Balloons inflating  
 Leak detection

- **Transport information**  
Compressed gas

Proper shipping name Helium, compressed  
 UN Nr 1046  
 ADR/RID Class 2 Classification Code 1 A



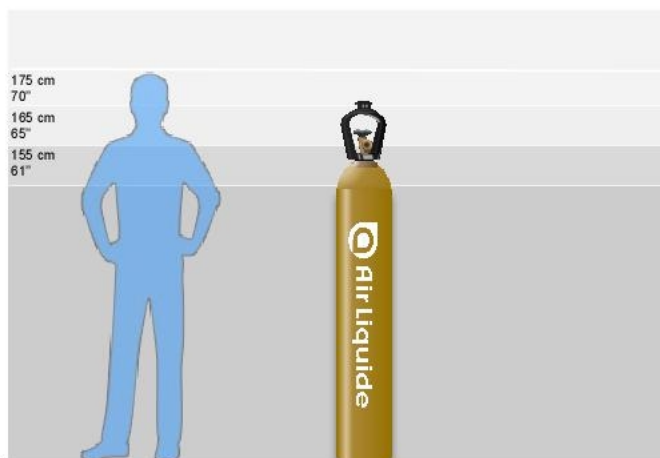
- **Safety Data sheets**

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

- **Product Specification**

| Components (% Vol. abs) | Supply mode | Packaging size | Pressure (bar) | *Capacity (Sm3) |
|-------------------------|-------------|----------------|----------------|-----------------|
| He                      |             |                |                |                 |
| ≥ 99.9%                 | Cylinder    | 47L            | 150            | 7               |

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



- **Physical information**  
 Molecular weight ..... 4 g/mol  
 Relative density, gas ..... 0.14 (air=1)  
 Relative density, liquid ..... N/A (water=1)  
 CAS number ..... 7440-59-7

- **Properties**

Hazards identification: in high concentrations may cause asphyxiation  
 Flammability range: non flammable  
 Personal protection: ensure adequate ventilation

- **Cylinder equipment**

Valve: CGA 580  
 Cylinder color: Brown  
 Scandina Caps: Black

# HELIUM HP



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- Applications**

Fiber optics  
Airbags  
Leak detection

- Transport information**

Compressed gas

Proper shipping name Helium, compressed  
UN Nr 1046  
ADR/RID Class 2 Classification Code 1 A



- Physical information**

Molecular weight . . . . . 4 g/mol  
Relative density, gas . . . . . 0.14 (air=1)  
Relative density, liquid . . . . . N/A (water=1)  
CAS number . . . . . 7440-59-7

- Properties**

Hazards identification: in high concentrations may cause asphyxiation  
Flammability range: non flammable  
Personal protection: ensure adequate ventilation

- Cylinder equipment**

Valve: CGA 580  
Cylinder color: Brown  
Scandina Caps: Brown

- Safety Data sheets**

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

- Product Specification**

| Components (% Vol. abs)<br>He | Impurities (ppm v/v) | Supply mode | Packaging size | Pressure (bar) | *Capacity (Sm3) |
|-------------------------------|----------------------|-------------|----------------|----------------|-----------------|
| ≥99.995%                      | H2O ≤ 5              | Cylinder    | 47L            | 150            | 7               |
|                               | O2 ≤ 5               | Crate 16    | 50L            | 200            | 162             |
|                               | CnHm ≤ 5             |             |                |                |                 |

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





# PURIFIED HELIUM



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

- Applications**

- Carrier gas (GC)
- Instrumentation gas (LCMS, Elemental analysis...)
- Purge (TOC, Thermal analysis)
- Zero gas

- Transport information**

- Compressed gas

- Proper shipping name Helium, compressed
- UN Nr 1046
- ADR/RID Class 2 Classification Code 1 A



- 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 (Sm3) |
|-------------------------|----------------------|-------------|----------------|----------------|-----------------|
| He                      |                      |             |                |                |                 |
| ≥99.999%                | H2O ≤ 3              | Cylinder    | 47L            | 150            | 7               |
|                         | O2 ≤ 3               | Crate 16    | 50L            | 200            | 162             |
|                         | CnHm ≤ 1             |             |                |                |                 |

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



- Physical information**

- Molecular weight . . . . . 4 g/mol
- Relative density, gas . . . . . 0.14 (air=1)
- Relative density, liquid . . . . . N/A (water=1)
- CAS number . . . . . 7440-59-7

- Properties**

- Hazards identification: in high concentrations may cause asphyxiation
- Flammability range: non flammable
- Personal protection: ensure adequate ventilation

- Cylinder equipment**

- Valve: CGA 580
- Cylinder color: Brown
- Scandina Caps: White

# ALPHAGAZ 1 HELIUM

He

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• **Transport information**

Compressed gas

- Proper shipping name Helium, compressed
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• **Safety Data sheets**

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• **Product Specification**

| Components (% Vol. abs) | Impurities (ppm v/v) | Supply mode | Packaging size | Pressure (bar) | *Capacity (Sm3) |
|-------------------------|----------------------|-------------|----------------|----------------|-----------------|
| He                      |                      |             |                |                |                 |
| ≥ 99.999%               | O2 ≤ 2               | Cylinder    | 50L            | 200            | 10              |
|                         | H2O ≤ 2              | **Crate 8   | 50L            | 200            | 81              |
|                         | CnHm ≤ 0.5           |             |                |                |                 |
|                         | CO2 ≤ 0.5            |             |                |                |                 |
|                         | CO ≤ 0.5             |             |                |                |                 |

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

\*\* On demand



• **Physical information**

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- Relative density, gas . . . . . 0.14 (air=1)
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### **DISCLAIMER**

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