

# GAS SPECIFICATION



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# *GAS SPECIFICATION*



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## INDEX

	Page
<b>ARCAL 1</b> .....	4
<b>ARCAL 5</b> .....	5
ARCAL R1-2 .....	6
ARCAL M12 .....	7
ARCAL M13 .....	8
ARCAL R1-5 .....	9
<b>ARCAL M20</b> .....	10
ARCAL 31 .....	11
ARCAL He20 .....	12
ARCAL He50 .....	13
ARCAL N2-2 .....	14
ARGON INDUSTRIAL .....	15
ARGON HP .....	16
ARGON UHP .....	17
<b>ALPHAGAZ 1 ARGON</b> .....	18
CARBON DIOXIDE .....	19
CARBON DIOXIDE .....	20
HYDROGEN INDUSTRIAL .....	21
HYDROGEN HP .....	22
HYDROGEN UHP .....	23
<b>ALPHAGAZ 1 HYDROGEN</b> .....	24
SYNTHETIC OXY 21 .....	25
SYNTHETIC OXY 21 UHP .....	26
NITROGEN INDUSTRIAL .....	27
NITROGEN HP .....	28
NITROGEN UHP .....	29
<b>ALPHAGAZ 1 NITROGEN</b> .....	30
OXYGEN INDUSTRIAL .....	31
OXYGEN HP .....	32
<b>OXYGEN 99.99%</b> .....	33
OXYGEN UHP .....	34
<b>HELIUM BALLOON</b> .....	35
HELIUM HP .....	36
PURIFIED HELIUM .....	37
<b>ALPHAGAZ 1 HELIUM</b> .....	38
ACETYLENE INDUSTRIAL .....	39
ACETYLENE INSTRUMENT .....	40
10% Methane balance Argon (P10) .....	41

# ARCAL 1



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

**ARCAL Prime** : The pure solution

• **Applications**

- TIG and plasma welding of all materials
- MIG welding of aluminium and copper alloys
- Root shielding of all materials

• **Transport information**

Compressed gas

- Proper shipping name Argon, compressed
- UN Nr 1006
- ADR/RID Class 2 Classification Code 1 A



• **Physical information**

- Molecular weight . . . . . 39.95 g/mol
- Relative density, gas . . . . . 1.38 (air=1)
- Relative density, liquid . . . . . 1.4 (water=1)
- CAS number . . . . . 7440-37-1

• **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: Blue
- Caps: Blue

• **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)
Ar					
≥ 99.995%	H2O ≤ 5	Cylinder	50L	200	10
	O2 ≤ 5	Crate 8	50L	200	81

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



# ARCAL 5



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

**ARCAL Force** : Powerful results

- **Applications**

All-purpose MAG welding of carbon steel

- **Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 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)
CO2    18%    ±    1.8%	H2O    ≤ 40	Cylinder	50L	200	10
Ar    Balance	O2    ≤ 50	Crate 8	50L	200	81

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



- **Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- **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: Blue  
 Shoulder color: Yellow  
 Stripe color: Black  
 Caps: Blue

# ARCAL R1-2



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

• **Applications**

- TIG and Plasma welding of austenitic stainless steels
- TIG brazing of galvanised steels
- TIG orbital welding of austenitic stainless steels

• **Transport information**

Compressed gas

Proper shipping name      Compressed gas, N.O.S.  
 UN Nr                              1956  
 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)
H2	2.4% ± 0.5%	H2O	≤ 40	Cylinder	50L	200	10
Ar	Balance	O2	≤ 20	**Crate 8	50L	200	81

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

\*\* On demand



• **Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

• **Properties**

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

• **Cylinder equipment**

Valve: CGA 350  
 Cylinder color: Blue  
 Stripe color: Red  
 Caps: Lead

# ARCAL M12



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

**ARCAL Chrome** : The brilliant choice

- Applications**

All-purpose MAG welding of both austenitic and ferritic stainless steel

- Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 ADR/RID                        Class 2  
     Classification Code 1 A



- Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- 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: Blue  
 Stripe color: Black  
 Caps: Lead

- 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)
CO2	2% ± 0.5%	H2O	≤ 40	Cylinder	50L	200	10
Ar	Balance	O2	≤ 50	Crate 8	50L	200	81

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



# ARCAL M13



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

- **Applications**

MAG welding of ELC (Extra Low Carbon) stainless steels  
 MAG brazing

- **Transport information**

Compressed gas

Proper shipping name Compressed gas, N.O.S.  
 UN Nr 1956  
 ADR/RID Class 2  
 Classification Code 1 A



- **Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- **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: Blue  
 Stripe color: Black  
 Caps: Lead

- **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)
O2	2% ± 0.5%	H2O	≤ 10	Cylinder	50L	200	10
Ar	Balance			Crate 8	50L	200	81

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





# ARCAL N2-2



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

● **Applications**

- TIG welding of Duplex and Super duplex steels
- Plasma welding of Duplex and Super duplex steels
- TIG welding of N2 alloyed stainless steels
- TIG welding of austenitic stainless steels

● **Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 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)
N2	2% ± 0.2%	H2O	≤ 5	Cylinder	50L	200	10
Ar	Balance	O2	≤ 5	**Crate 8	50L	200	81

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

\*\* On demand



● **Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

● **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: Blue  
 Stripe color: Gray  
 Caps: Lead



# ARCAL M20



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

**ARCAL Speed** : Productivity plus

- Applications**

Highly productive MAG welding of carbon steel

- Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 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)
CO2	8% ± 0.8%	H2O	≤ 40	Cylinder	50L	200	10
Ar	Balance	O2	≤ 50	Crate 8	50L	200	81

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



- Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- 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: Blue  
 Stripe color: Black  
 Caps: Lead

# ARCAL 31



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

- Applications**

MIG welding of aluminium and copper alloys

- Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 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	5% ± 0.5%	H2O	≤ 5	Cylinder	50L	200	10
Ar	Balance	O2	≤ 5	**Crate 8	50L	200	81

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

\*\* On demand



- Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- 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: Blue  
 Stripe color: Brown  
 Caps: Lead

# ARCAL He20



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

- Applications**

- MIG welding of aluminium and copper alloys
- TIG welding of all materials
- TIG welding of H2 sensitive materials
- Annular gas for plasma welding of aluminium

- Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 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	20% ± 2%	H2O	≤ 40	Cylinder	50L	200	10
Ar	Balance	O2	≤ 20	**Crate 8	50L	200	81

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

\*\* On demand



- Physical information**

Relative density, gas . . . . . heavier than air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- 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: Blue  
 Stripe color: Brown  
 Caps: Lead

# ARCAL He50



**ARCAL** : the Air Liquide solution for shielding gases and mixtures in arc welding

- Applications**

Manuel and automatic TIG and MIG welding of aluminium and copper alloys

- Transport information**

Compressed gas

Proper shipping name    Compressed gas, N.O.S.  
 UN Nr                            1956  
 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	50% ± 5%	H2O	≤ 10	Cylinder	50L	200	10
Ar	Balance	O2	≤ 10	**Crate 8	50L	200	81

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

\*\* On demand



- Physical information**

Relative density, gas . . . . .lighter or similar to air  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- 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: Blue  
 Stripe color: Brown  
 Caps: Lead

# ARGON INDUSTRIAL

Ar

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



*Air Liquide delivers Argon in a mode of supply to suit each of our customer's needs: liquid, cylinder or onsite production*

• **Applications**

- Carrier gas
- Instrumentation gas
- Purge and Zero gas

• **Transport information**

Compressed gas

- Proper shipping name: Argon, compressed
- UN Nr: 1006
- ADR/RID: Class 2 Classification Code 1 A

Refrigerated gas

- Proper shipping name: Argon, refrigerated liquid
- UN Nr: 1951
- ADR/RID: Class 2 Classification Code 3 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)
Ar					
≥ 99.99%	O2 ≤ 10	Cylinder	47L	150	7
	H2O ≤ 10	Crate 16	50L	200	162
		Liquid	VGL 200L	VHP	132

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



• **Physical information**

- Molecular weight: 39.95 g/mol
- Relative density, gas: 1.38 (air=1)
- Relative density, liquid: 1.4 (water=1)
- CAS number: 7440-37-1

• **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: Blue
- Scandina Caps: Black

# ARGON HP

Ar

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



*Air Liquide delivers Argon in a mode of supply to suit each of our customer's needs: liquid, cylinder or onsite production*

• **Applications**

- Carrier gas
- Instrumentation gas
- Purge and Zero gas

• **Transport information**

Compressed gas

- Proper shipping name Argon, compressed
- UN Nr 1006
- ADR/RID Class 2 Classification Code 1 A



• **Physical information**

- Molecular weight . . . . . 39.95 g/mol
- Relative density, gas . . . . . 1.38 (air=1)
- Relative density, liquid . . . . . 1.4 (water=1)
- CAS number . . . . . 7440-37-1

• **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: Blue
- Scandina Caps: Blue

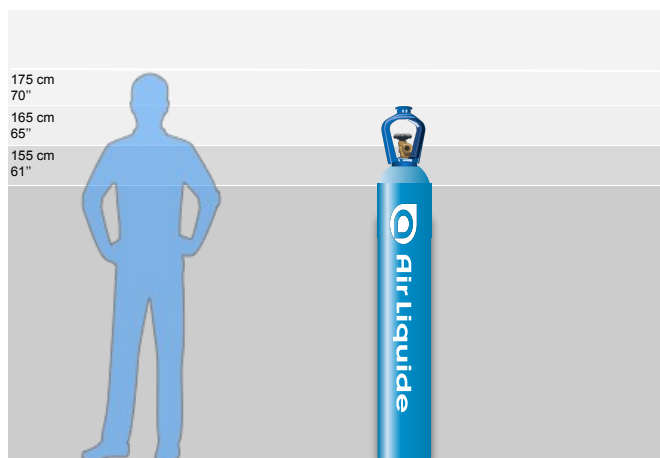
• **Safety Data sheets**

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)
Ar					
≥ 99.995%	O2 ≤ 5	Cylinder	47L	150	7
	H2O ≤ 5				

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





# ARGON UHP

Ar

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



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

- Applications**

Carrier gas  
Instrumentation gas  
Purge and Zero gas

- Transport information**

Compressed gas

Proper shipping name     Argon, compressed  
UN Nr                             1006  
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)
Ar					
≥ 99.999%	O2 ≤ 2	Cylinder	47L	150	7
	H2O ≤ 3	Crate 16	50L	200	162
	CnHm ≤ 1				

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



- Physical information**

Molecular weight . . . . . 39.95 g/mol  
Relative density, gas . . . . . 1.38 (air=1)  
Relative density, liquid . . . . . 1.4 (water=1)  
CAS number . . . . . 7440-37-1

- 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: Blue  
Scandina Caps: White

# ALPHAGAZ 1 ARGON

Ar

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



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

• **Applications**

- Carrier gas
- Instrumentation gas
- Purge and Zero gas

• **Transport information**

Compressed gas

- Proper shipping name Argon, compressed
- UN Nr 1006
- 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)
Ar					
≥ 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**

- Molecular weight . . . . . 39.95 g/mol
- Relative density, gas . . . . . 1.38 (air=1)
- Relative density, liquid . . . . . 1.4 (water=1)
- CAS number . . . . . 7440-37-1

• **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: Blue
- Scandina Caps: White

# CARBON DIOXIDE

Air Liquide's Gas Encyclopedia : <https://encyclopedia.airliquide.com/carbon-dioxide>



*Air Liquide delivers Carbon dioxide in a mode of supply to suit each of our customer's needs: liquid, cylinder*

● **Applications**

- Chemical synthesis
- Cryogenic fluid
- Inerting agent
- Protective atmosphere (welding,...)
- Acidification agent

● **Transport information**

Liquefied gas

- Proper shipping name Carbon dioxide
- UN Nr 1013
- ADR/RID Class 2 Classification Code 2 A

Refrigerated gas

- Proper shipping name Carbon dioxide, refrigerated liquid
- UN Nr 2187
- ADR/RID Class 2 Classification Code 3 A



● **Safety Data sheets**

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

● **Product Specification**

Components (% Vol. abs)	Supply mode	Capacity (KG)
CO2		
≥ 99.5%	Cylinder	25
	Crate 16	400

● **Physical information**

- Molecular weight . . . . . 44.01 g/mol
- Relative density, gas . . . . . 1.52 (air=1)
- Relative density, liquid
- Liquefied gas . . . . . 0.82 (water=1)
- Refrigerated gas . . . . . 1.03 (water=1)
- CAS number . . . . . 124-38-9

● **Properties**

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

● **Cylinder equipment**

- Valve: CGA 320
- Cylinder color: Black
- Stripe color: White
- Scandina Caps: Black

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



# CARBON DIOXIDE HP

Air Liquide's Gas Encyclopedia : <https://encyclopedia.airliquide.com/carbon-dioxide>



*Air Liquide delivers Carbon dioxide in a mode of supply to suit each of our customer's needs: liquid, cylinder*

## • Applications

- Chemical synthesis
- Cryogenic fluid
- Inerting agent
- Protective atmosphere (welding,...)
- Acidification agent

## • Transport information

### Liquefied gas

- Proper shipping name Carbon dioxide
- UN Nr 1013
- ADR/RID Class 2 Classification Code 2 A

### Refrigerated gas

- Proper shipping name Carbon dioxide, refrigerated liquid
- UN Nr 2187
- ADR/RID Class 2 Classification Code 3 A



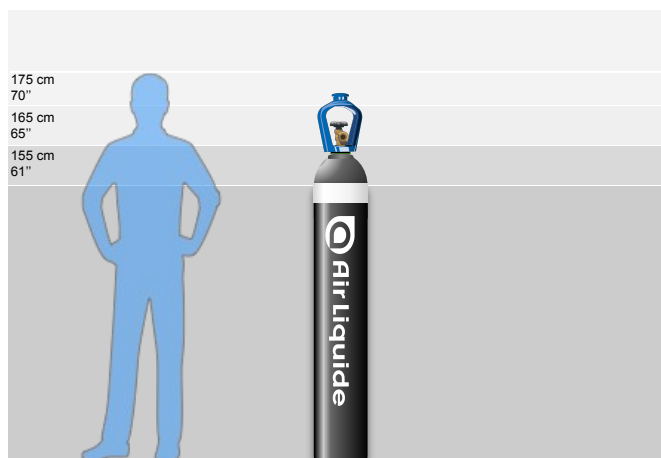
## • Safety Data sheets

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

## • Product Specification

Components (% Vol. abs)	Impurities (ppm v/v)	Supply mode	Capacity (KG)
CO <sub>2</sub>			
≥ 99.9%	H <sub>2</sub> O ≤ 25	Cylinder	25

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



## • Physical information

- Molecular weight . . . . . 44.01 g/mol
- Relative density, gas . . . . . 1.52 (air=1)
- Relative density, liquid
- Liquefied gas . . . . . 0.82 (water=1)
- Refrigerated gas . . . . . 1.03 (water=1)
- CAS number . . . . . 124-38-9

## • Properties

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

## • Cylinder equipment

- Valve: CGA 320
- Cylinder color: Black
- Stripe color: White
- Scandina Caps: Blue



*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 <sup>3</sup> )
H <sub>2</sub>					
≥ 99.95%	H <sub>2</sub> O ≤ 10	Crate 16	50L	200	162
	O <sub>2</sub> ≤ 10				

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





*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**

Carrier gas (GC)  
Instrumentation gas (Flame, Thermal analysis,...)

• **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  
Caps: 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 (Sm3)
H2					
≥ 99.995%	H2O ≤ 5	Cylinder	47L	150	7
	O2 ≤ 5	Cylinder	50L	150	7.5
		Crate 16	50L	200	162

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





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

• **Applications**

Carrier gas (GC)  
Instrumentation gas (Flame, Thermal analysis,...)

• **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  
Caps: White

• **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)
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

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

\*\* On special request



# ALPHAGAZ 1 HYDROGEN

H<sub>2</sub>

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



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

• **Applications**

Carrier gas (GC)  
Instrumentation gas (Flame, Thermal analysis,...)

• **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  
Scandina Caps: White

• **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)
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				

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

\*\* On demand





# SYNTHETIC OXY 21



*Air Liquide delivers Oxygen in a mode of supply to suit each of our customer's needs: liquid, cylinder or onsite production*

- Applications**

Flame gas (AAS, CLD, FID, THC...)  
 Instrumentation gas (LCMS, NMR, TGA, TOC...)  
 Purge gas (UV, FTIR...)  
 Zero gas (GC-FID, FTIR...)

- Transport information**

- Compressed gas

Proper shipping name     Air, compressed  
 UN Nr                             1002  
 ADR/RID                         Class 2 Classification Code 1 A



- Physical information**

Molecular weight . . . . . 28.96 g/mol  
 Relative density, gas . . . . . 1 (air=1)  
 Colour . . . . . colourless gas  
 Odor . . . . . none

- Properties**

Hazards identification: compressed gas  
 Flammability range: non flammable  
 Personal protection: none necessary

- Cylinder equipment**

Valve: CGA 540  
 Cylinder color: Gray  
 Shoulder color: White  
 Scandina Caps: Black

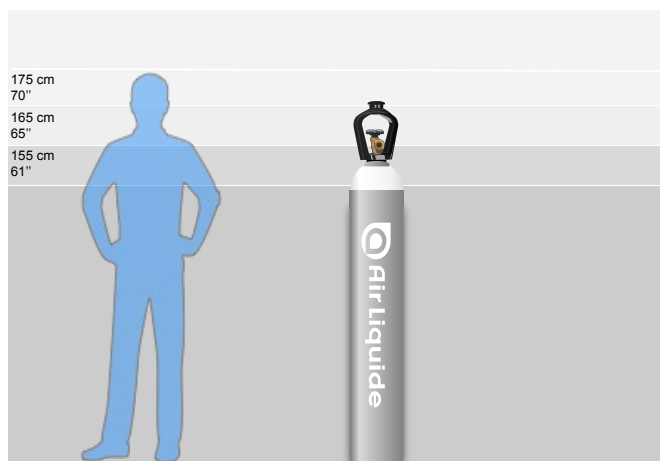
- Safety Data sheets**

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)
O2 21% ± 1%	H2O ≤ 5	Cylinder	47L	150	7
N2 balance	CnHm ≤ 5				

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



# SYNTHETIC OXY 21 UHP



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

- Applications**

Flame gas (AAS, CLD, FID, THC...)  
Instrumentation gas (LCMS, NMR, TGA, TOC...)  
Purge gas (UV, FTIR...)  
Zero gas (GC-FID, FTIR...)

- Transport information**

- Compressed gas

Proper shipping name     Air, compressed  
UN Nr                             1002  
ADR/RID                         Class 2 Classification Code 1 A



- Physical information**

Molecular weight . . . . . 28.96 g/mol  
Relative density, gas . . . . . 1 (air=1)  
Colour . . . . . colourless gas  
Odor . . . . . none

- Properties**

Hazards identification: compressed gas  
Flammability range: non flammable  
Personal protection: none necessary

- Cylinder equipment**

Valve: CGA 540  
Cylinder color: Gray  
Shoulder color: White  
Scandina Caps: White

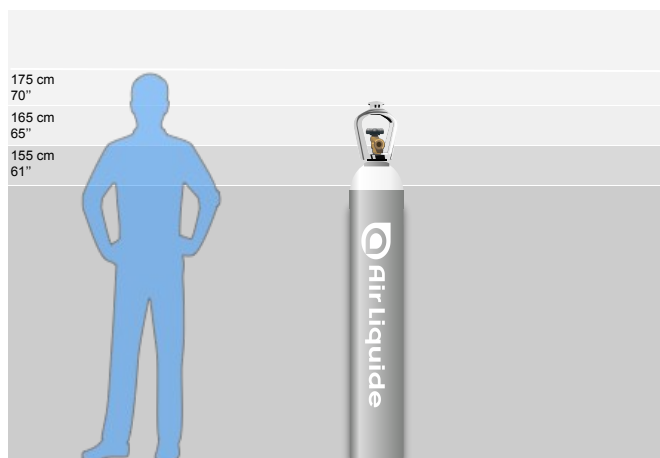
- Safety Data sheets**

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)
O2 21% ± 1%	H2O ≤ 3	Cylinder	47L	150	7
N2 balance	CnHm ≤ 0.5				

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





*Air Liquide delivers Nitrogen in a mode of supply to suit each of our customer's needs: liquid, cylinder or on-site production*

● **Applications**

- Protective atmosphere (heat treatment)
- Inerting agent
- Pressurizing agent
- Cryogenic storage

● **Transport information**

Compressed gas

- Proper shipping name Nitrogen, compressed
- UN Nr 1066
- ADR/RID Class 2 Classification Code 1 A

Refrigerated gas

- Proper shipping name Nitrogen, refrigerated liquid
- UN Nr 1977
- ADR/RID Class 2 Classification Code 3 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)
N2					
≥ 99.9%	H2O ≤ 25	Cylinder	47L	150	7
	O2 ≤ 100	Crate 16	50L	200	162
		Liquid	VGL 180L	VHP	110
		Liquid	VGL 180L	MP	117
		Liquid	VGL 180L	LP	117

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



● **Physical information**

- Molecular weight . . . . . 28.01 g/mol
- Relative density, gas . . . . . 0.97 (air=1)
- Relative density, liquid . . . . . 0.8 (water=1)
- CAS number . . . . . 7727-37-9

● **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: Gray
- Stripe color: Black
- Scandina Caps: Black



*Air Liquide delivers Nitrogen in a mode of supply to suit each of our customer's needs: liquid, cylinder or on-site production*

● **Applications**

- Carrier gas (GC)
- Instrumentation gas (LCMS...)
- Purge & Zero gas
- Cryogenic fluid (liquid N2)

● **Transport information**

Compressed gas

- Proper shipping name Nitrogen, compressed
- UN Nr 1066
- ADR/RID Class 2 Classification Code 1 A



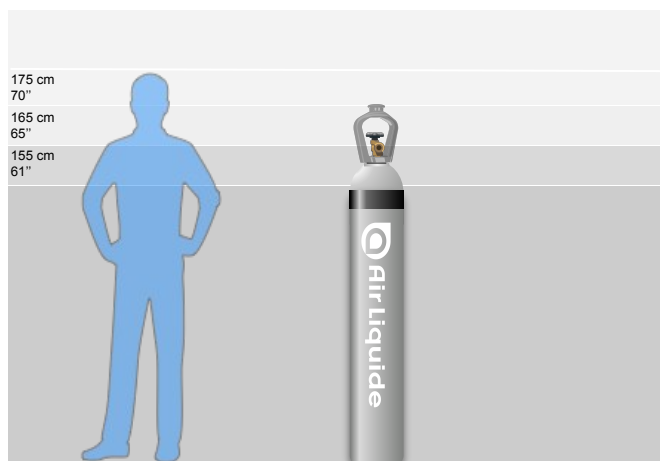
● **Safety Data sheets**

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)
N2					
≥ 99.995%	H2O ≤ 5	Cylinder	47L	150	7
	O2 ≤ 5				

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



● **Physical information**

- Molecular weight . . . . . 28.01 g/mol
- Relative density, gas . . . . . 0.97 (air=1)
- Relative density, liquid . . . . . 0.8 (water=1)
- CAS number . . . . . 7727-37-9

● **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: Gray
- Stripe color: Black
- Scandina Caps: Gray



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the commitment to quality for % to ppm analysis*

- Applications**

Carrier gas (GC)  
Instrumentation gas (LCMS...)  
Purge & Zero gas  
Cryogenic fluid (liquid N2)

- Transport information**

Compressed gas

Proper shipping name Nitrogen, compressed  
UN Nr 1066  
ADR/RID Class 2 Classification Code 1 A



- Safety Data sheets**

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

- Product Specification**

- Physical information**

Molecular weight . . . . . 28.01 g/mol  
Relative density, gas . . . . . 0.97 (air=1)  
Relative density, liquid . . . . . 0.8 (water=1)  
CAS number . . . . . 7727-37-9

- 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: Gray  
Stripe color: Black  
Scandina Caps: White

Components (% Vol. abs)	Impurities (ppm v/v)	Supply mode	Packaging size	Pressure (bar)	*Capacity (Sm3)
N2					
≥ 99.999%	H2O ≤ 3	Cylinder	47L	150	7
	O2 ≤ 2	Crate 16	50L	200	162
	CnHm ≤ 1				

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



# ALPHAGAZ 1 NITROGEN



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

- Applications**

- Carrier gas (GC)
- Instrumentation gas (LCMS...)
- Purge & Zero gas
- Cryogenic fluid (liquid N<sub>2</sub>)

- Transport information**

Compressed gas

- Proper shipping name Nitrogen, compressed
- UN Nr 1066
- ADR/RID Class 2 Classification Code 1 A



- Safety Data sheets**

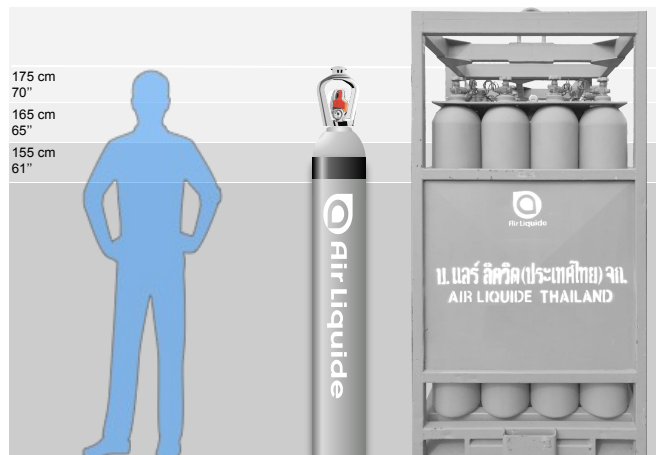
Access: <https://www.airliquide.com/safety-data-sheets>

- Product Specification**

Components (% Vol. abs)	Impurities (ppm v/v)	Supply mode	Packaging size	Pressure (bar)	*Capacity (Sm <sup>3</sup> )
N <sub>2</sub>					
≥ 99.999%	O <sub>2</sub> ≤ 2	Cylinder	50L	200	10
	H <sub>2</sub> O ≤ 2	**Crate 8	50L	200	81
	CnHm ≤ 0.5				
	CO <sub>2</sub> ≤ 0.5				
	CO ≤ 0.5				

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

\*\* On demand



- Physical information**

- Molecular weight . . . . . 28.01 g/mol
- Relative density, gas . . . . . 0.97 (air=1)
- Relative density, liquid . . . . . 0.8 (water=1)
- CAS number . . . . . 7727-37-9

- 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: Gray
- Stripe color: Black
- Scandina Caps: White



*Air Liquide delivers Oxygen in a mode of supply to suit each of our customer's needs: liquid, cylinder or onsite production*

● **Applications**

- Oxidizing agent
- Bleaching agent
- Fuel cutting
- Silicon oxidation (semiconductor manufacturing)

● **Transport information**

Compressed gas

- Proper shipping name    Oxygen, compressed
- UN Nr                            1072
- ADR/RID                      Class 2 Classification Code 1 0

Refrigerated gas

- Proper shipping name    Oxygen, refrigerated liquid
- UN Nr                            1073
- ADR/RID                      Class 2 Classification Code 3 0



● **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 <sup>3</sup> )
O <sub>2</sub>					
≥ 99.5%	H <sub>2</sub> O ≤ 100	Cylinder	47L	150	7
		Crate16	47L	150	112
		Liquid	VGL 180L	HP	135

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



● **Physical information**

- Molecular weight . . . . . 32 g/mol
- Relative density, gas . . . . . 1.1 (air=1)
- Relative density, liquid . . . . . 1.1 (water=1)
- CAS number . . . . . 7782-44-7

● **Properties**

- Hazards identification: oxidant, strongly supports combustion, may react violently with combustion materials
- Flammability range: oxidiser
- Personal protection: avoid O<sub>2</sub> rich (>23%) atmospheres

● **Cylinder equipment**

- Valve: CGA 540
- Cylinder color: Black
- Scandina Caps: Black

# OXYGEN HP



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



*Air Liquide delivers Oxygen in a mode of supply to suit each of our customer's needs: liquid, cylinder or onsite production*

- Applications**

Flame gas  
Instrumentation gas

- Transport information**

Compressed gas

Proper shipping name      Oxygen, compressed  
UN Nr                              1072  
ADR/RID                         Class 2 Classification Code 1 0



- Physical information**

Molecular weight . . . . . 32 g/mol  
Relative density, gas . . . . . 1.1 (air=1)  
Relative density, liquid . . . . . 1.1 (water=1)  
CAS number . . . . . 7782-44-7

- Properties**

Hazards identification: oxidant, strongly supports combustion, may react violently with combustion materials  
Flammability range: oxidiser  
Personal protection: avoid O2 rich (>23%) atmospheres

- Cylinder equipment**

Valve: CGA 540  
Cylinder color: Black  
Scandina Caps: Blue

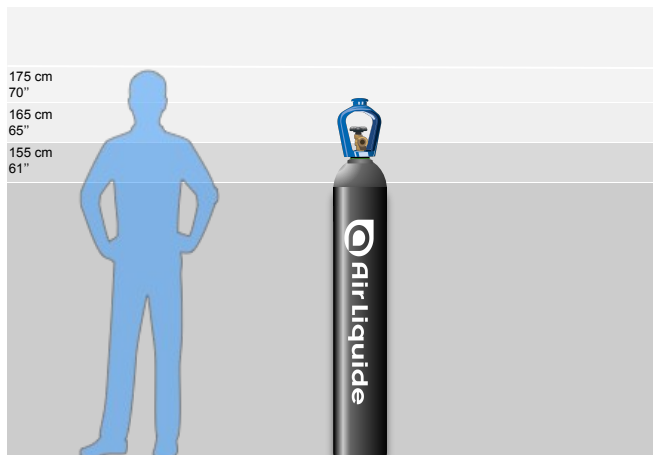
- Safety Data sheets**

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)
O <sub>2</sub>					
≥ 99.8%	H <sub>2</sub> O ≤ 25	Cylinder	47L	150	7

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





# OXYGEN 99.99%



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



*Air Liquide delivers Oxygen in a mode of supply to suit each of our customer's needs: liquid, cylinder or onsite production*

- Applications**

Flame gas  
Instrumentation gas

- Transport information**

- Compressed gas

Proper shipping name    Oxygen, compressed  
UN Nr                            1072  
ADR/RID                        Class 2 Classification Code 1 0



- Physical information**

Molecular weight . . . . . 32 g/mol  
Relative density, gas . . . . . 1.1 (air=1)  
Relative density, liquid . . . . . 1.1 (water=1)  
CAS number . . . . . 7782-44-7

- Properties**

Hazards identification: oxidant, strongly supports combustion, may react violently with combustion materials  
Flammability range: oxidiser  
Personal protection: avoid O2 rich (>23%) atmospheres

- Cylinder equipment**

Valve: CGA 540  
Cylinder color: Black  
Scandina Caps: Blue

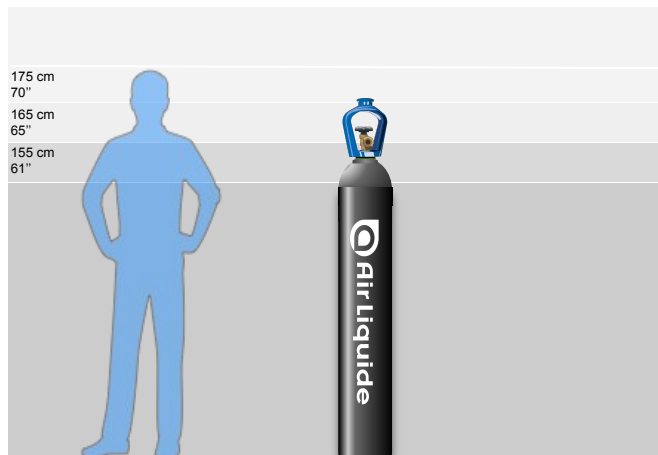
- Safety Data sheets**

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)
O <sub>2</sub>					
≥ 99.99%	H <sub>2</sub> O ≤ 5	Cylinder	47L	150	7
	CH <sub>4</sub> ≤ 5				

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



# OXYGEN UHP

O<sub>2</sub>

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



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

● **Applications**

Flame gas  
Instrumentation gas

● **Transport information**

Compressed gas

Proper shipping name    Oxygen, compressed  
UN Nr                            1072  
ADR/RID                        Class 2 Classification Code 1 0



● **Safety Data sheets**

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

● **Product Specification**

● **Physical information**

Molecular weight . . . . . 32 g/mol  
Relative density, gas . . . . . 1.1 (air=1)  
Relative density, liquid . . . . . 1.1 (water=1)  
CAS number . . . . . 7782-44-7

● **Properties**

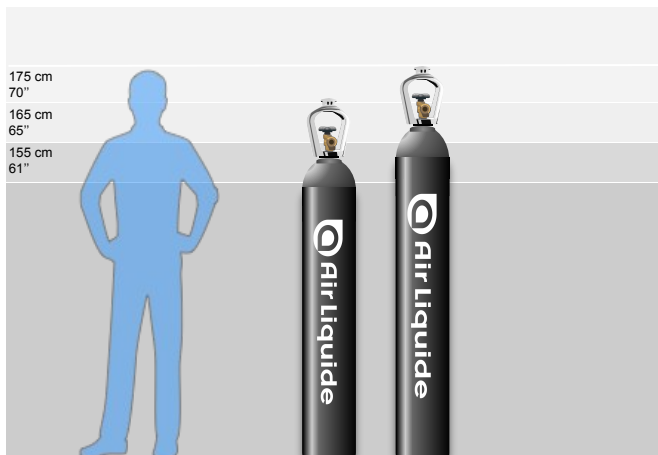
Hazards identification: oxidant, strongly supports combustion, may react violently with combustion materials  
Flammability range: oxidiser  
Personal protection: avoid O2 rich (>23%) atmospheres

● **Cylinder equipment**

Valve: CGA 540  
Cylinder color: Black  
Scandina Caps: White

Components (% Vol. abs)	Impurities (ppm v/v)	Supply mode	Packaging size	Pressure (bar)	*Capacity (Sm3)
O <sub>2</sub>					
≥ 99.999%	H2O ≤ 1	Cylinder	47L	150	7
	CnHm ≤ 0.5	Cylinder	50L	200	10
	CO ≤ 0.5				
	CO2 ≤ 0.5				
	N2 ≤ 2				

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



# HELIUM BALLOON



*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



- 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

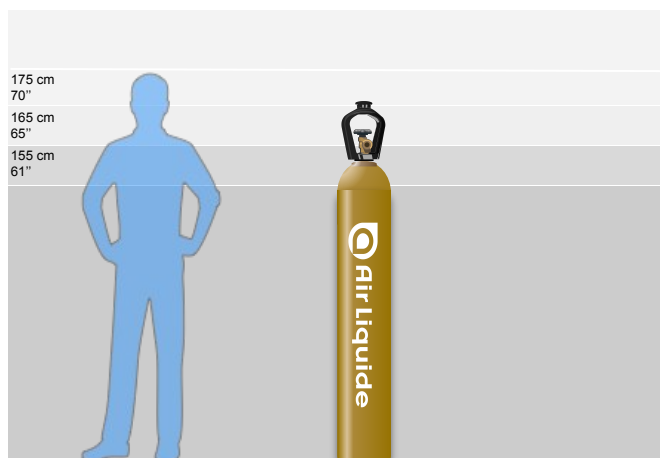
- Safety Data sheets**

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.



# HELIUM HP



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

- 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) 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

Air Liquide's Gas Encyclopedia : <https://encyclopedia.airliquide.com/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%	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**

- 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

# Acetylene Industrial grade



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



**Acetylene Industrial grade** : the Air Liquide solution for welding metals and cutting steel.

### • Applications

Acetylene is a fuel gas that is used together with oxygen for welding metals and cutting steel, and also for allied oxy-acetylene processes for heating, forming and treating metals.

### • Transport information

#### Compressed gas

Proper shipping name	Acetylene, dissolved
UN Nr	1001
ADR/RID	Class 2 Classification Code 4F



### • Safety Data sheets

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

### • Product Specification

Components (% Vol. abs)	Impurities (v/v)	Supply mode	Packaging size
C2H2			
≥ 98.0%	NH3 ≤ 5 ppm	Cylinder	7 KG
	H2O ≤ 0.25%		
	PH3 ≤ 500 ppm		
	H2S ≤ 500 ppm		

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



### • Physical information

Molecular weight	26.04 g/mol
Relative density, gas	0.899 (air=1)
Relative density, liquid	1.097 (water=1)
CAS number	74-86-2

### • Properties

Hazards identification: Extremely flammable.  
Explosive if heated.  
Flammability range: Extremely flammable, react violently with oxidants  
Personal protection: Ensure adequate ventilation

### • Cylinder equipment

Valve: CGA 300  
Cylinder color: Dark brownish red  
Caps: Black

# Acetylene Instrument grade



**Acetylene Instrument grade** : the Air Liquide solution for calibration and spectroscopy.

- Applications**

Calibration gas mixture  
Instrument gas in Atomic Absorption Spectrometry with flame (AAS)

- Transport information**

Compressed gas

Proper shipping name     Acetylene, dissolved  
UN Nr                             1001  
ADR/RID                         Class 2 Classification Code 4F



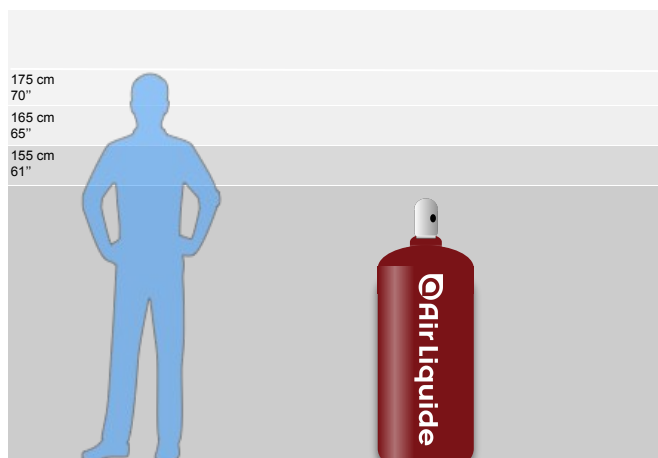
- Safety Data sheets**

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

- Product Specification**

Components (% Vol. abs)	Impurities (v/v)	Supply mode	Packaging size
C2H2			
≥ 99.8%	NH3 ≤ 5 ppm	Cylinder	7 KG
	H2O ≤ 0.25%		
	PH3 ≤ 50 ppm		
	H2S ≤ 50 ppm		

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



- Physical information**

Molecular weight . . . . . 26.04 g/mol  
Relative density, gas . . . . . 0.899 (air=1)  
Relative density, liquid . . . . . 1.097 (water=1)  
CAS number . . . . . 74-86-2

- Properties**

Hazards identification: Extremely flammable.  
Explosive if heated.  
Flammability range: Extremely flammable, react violently with oxidants  
Personal protection: Ensure adequate ventilation

- Cylinder equipment**

Valve: CGA 300  
Cylinder color: Dark brownish red  
Caps: White





### **DISCLAIMER**

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