

Gas Description

Air is a non-toxic, non-flammable, non corrosive gas used in mixtures with a gas density at STP 1.2928 kg/m³. Air can be supplied in cylinders and by on-site generators.

Typical applications :

Air is a source of oxygen for flame detectors; HFI, FP, AA Zero and dilution gas for analysis in air pollution, combustion, motors, etc

Transport Regulations :

UN Number : 1002
 Shipping Name : AIR, COMPRESSED
 Class : 2.2 : Non-Toxic, Non-Flammable Gas
 CAS Number : 132259-10-0
 Hazchem : 2[T]

[Click here](#) for MSDS
[Click here](#) for more information

Physical Properties

Chemical symbol : Air
 Molecular weight : 28.975
 Specific gravity (Air=1) : 1
 Specific volume (m³/kg) : 0.82
 Critical temperature : -141°C
 Boiling point : -194.5°C

Melting Point : -213.4°C
 Critical pressure (bar) : 37.71
 Major hazards : High Pressure
 Toxicity : Not Applicable
 Flammability Range : Supports Combustion
 Odour : None

[Click here](#) for more information

Application

INDUSTRY

Laboratories and Analysis

Chemicals

Oil and Gas

APPLICATION

Used to calibrate environmental emission monitoring, industrial hygiene monitors etc. Used as combustion gases for gas chromatograph detectors and atomic absorption

Reaction of ethylene with dry hydrogen chloride and air or oxygen produces 1,2-dichloroethane. Oxidation of ethylene or propylene by air gives ethylene or propylene.

Used as an oxidizing compound in Claus process to burn sulfur to sulfur dioxide.

[Click here](#) for more information

Typical Specification Comparison Table

Grade	Purity	Typical Impurities (ppm molar)				
		H ₂ O	THC	CO	CO ₂	NO
VEO		<1	<3	<1	<400	<0.1
Alphagaz 1		<3	<0.5			
Instrument		<20				

Air : VEO

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 1ppm	G	AS 2473 T 60	16,600	7.7
THC	< 3ppm	E			
CO	< 1ppm	D			
CO ₂	< 400ppm				
NO	< 0.1ppm				

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.
For further information [Contact](#) the specialty gases representative in your region.

Air : **Alphagaz 1**

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 3ppm	G	AS 2473 T 60	20,000	9.6
THC	< 2ppm	E			
		D			

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.
For further information [Contact](#) the specialty gases representative in your region.

Air : Instrument Grade

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 20ppm	G	AS 2473 T 60	16,600	7.7
		E			
		D			

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.
For further information [Contact](#) the specialty gases representative in your region.