

ALPHAGAZ™ 1 ARGON / Ar



ALPHAGAZ™, the easy-to-use solution for your analytical purposes - ALPHAGAZ™ 1 meets your analytical requirements ranging from% to ppm

Air Liquide's Gas Encyclopedia - Pages: 85 - 114

Applications

Laboratory & Analytics: carrier gas (GC), purge and zero gas, instrumentation gas (spark spectrometer, plasmagas for ICP, shielding gas for AAS)

Semiconductor industry: Inert atmospheres, purging, hardening, gas-discharge for metallisation (sputtering)

Melt metallurgy: inert atmospheres, purging

Transport information

Compressed gas cylinders

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

Refrigerated Gases

Proper shipping name	Argon, refrigerated liquid
UN-Nr	1951
ADR/RID	Class 2
	Classification code 3A



2.2: Non flammable, non toxic substances

Safety Data Sheets

Compressed gas: 003A_01

Access: http://gasekatalog.airliquide.de/sdb/003A_01-DE-EN-ALPHAGAZ_1_ARGON.pdf

Physical information

Molecular weight	39.95 g/mol
Relative density:	
Relative density, gas	1.38
Relative density, liquefied Gas	1.4 (water=1)
Colour	colorless
Odor	odorless
CAS number	7440-37-1

Properties

Hazards identification: Asphyxiant

Flammability range: inert; non-flammable

Personal protection: When handling the product, ensure adequate ventilation



Cylinder equipment

Valve fittings:

300 bar: DIN 477 Nr. 54 (M 30x2 mm)

200 bar: DIN 477 Nr. 6 (F 21,80 x 1/14")

Shoulder colour: dark green (RAL 6001)



Product Specifications

Purity (mol%) Ar	Impurities (ppm-mol)	Supply mode	Packaging size	Pressure (bar)	Capacity (m³)	Product reference
≥ 99,999	H ₂ O ≤ 2	Cylinder	S10	200 bar	2,1 m³	P0021S10R2A001
	O ₂ ≤ 2	Cylinder	L50	200 bar	10,7 m³	P0021L50R2A001
	HC ≤ 0,2	Cylinder	L50	300 bar	15,4 m³	P0021L50R3A001
	CO ₂ ≤ 0,2	Bundle	V12	200 bar	128,4 m³	P0021V12R2A001
	N ₂ ≤ 5	Bundle	V12	300 bar	183,4 m³	P0021V12R3A001
		Bundle	V12 DUAL23	300 bar	183,4 m³	P0021V12U3A001

Additional information

Product is available throughout Europe

Gases designed for analytical apparatuses as pure gases and mixtures with information on significant impurities

ISO 9001 certification

Approved by recognized European organizations

Product is recommended for analysis in % to ppm range

Storability: 60 months for compressed gas

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