

HYDROGEN 5.0 / H₂



Air Liquide's Gas Encyclopedia - Pages: 889-914

Applications

Laboratory & Analytics
Semiconductor industry: carrier gas for doping and epitaxy
Heat treatment

Transport information

Compressed gas cylinders

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

Refrigerated Gases

Proper shipping name	Hydrogen, refrigerated liquid
UN-Nr	1966
ADR/RID	Class 2
	Classification code 3F



Safety Data Sheets

Compressed gas : SDS-067A-CLP
Access: [https://www.msds-al.co.uk/assets/file_assets/SDS-067A_CLP_Hydrogen\(1333-74-0\).pdf](https://www.msds-al.co.uk/assets/file_assets/SDS-067A_CLP_Hydrogen(1333-74-0).pdf)

Physical information

Molecular weight	2,016 g/mol
Relative density:	
Relative density, gas	0,07 (air=1)
Colour	Colorless
Odor	Odorless
CAS number	1333-74-0

Properties

Hazards identification: Extremely flammable gas. Contains gas under pressure; may explode

Flammability range: Highly flammable



Cylinder equipment

Valve fittings

BS341 - No 4

Shoulder colour:

Red (RAL 3000)



Product Specifications

Global purity (% Vol. abs) H ₂	Impurities		Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,999 %	N ₂	< 5 ppmv	Bundle	V14*50L	200 bar	122,64 m3	P1713V14R2A001
	O ₂	< 1 ppmv	Bundle	V16	200 bar	142,40 m3	P1713V16R2A001
	H ₂ O	< 5 ppmv					
	HC	< 0,1 ppmv					
	CO/CO ₂	< 0,1 ppmv					

Additional information

Storability: 60 months

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