



Hydrogen 6.0



Purity, %: ≥ 99.9999 (including noble gases)

Impurities, ppm:	N ₂	≤ 0,5
	O ₂	≤ 0,5
	H ₂ O	≤ 0,5
	HC	≤ 0,1
	CO	≤ 0,1
	CO ₂	≤ 0,1

Specified data are ideal volume shares (=mole shares)

Type of supply: **Steel cylinder**

Capacity, [Liter]	Cylinder contents, [m ³]	Filling pressure, approx. [bar]	Gross weight approx. [kg]	Outer diameter approx. [mm]	Cylinder length approx. [mm]
2	0.356	200	5.5	100	490
10	1.78	200	17	140	970
50	8.89	200	70	229	1640

Cylinder bundle

Capacity, [Liter]	Cylinder contents, [m ³]	Filling pressure, approx. [bar]	number of cylinder in bundle	Gross weight approx. [kg]	Dimension approx. (L x W x H) [mm]
600	107	200	12	1070	1900x980x770

Additional delivery types on demand.

Supply notice: The specification corresponds to the global Linde product HIQ® Hydrogen 6.0.

Conversion factors:

m ³ gas (15°C, 1 bar)	l liquid at T _b	kg
1	1.188	0.0841
0.8418	1	0.0708
11.89	14.124	1

Linde GmbH
 Gases Division, Seitnerstrasse 70, 82049 Pullach, Deutschland
 Telephone: 0800-0530 530 0, Telefax: 0800-0530 530 11, www.linde-gas.de

To ensure a high level of customer service the customer data, such as Phone number, are stored and processed electronically.

The Company therefore accepts no liability and furnishes no guarantee, neither express nor implied, that the information provided is up-to-date, accurate or complete.

Version date 10.07.2023

Identification: Label: Hydrogen 6.0
Valve outlet: W 21.80 x 1/14 LH, DIN 477 No. 1

Properties: compressed gas, highly flammable

Chemical symbol: H₂
Molar mass: 2.016 g/mol

Tripel point:

Temperature	Pressure	Heat of fusion
14 K (°C)	0.072 bar	58.2 kJ/kg

Relative density based on dry air (15°C, 1 bar): 0.069
Critical temperature: 33.24 K (-239.91 °C)
Boiling point at 1.013 bar (T_b): 20.38 K (-252.77 °C)

Applications: reducing agent in chemistry and metallurgy; process gas for analysers, e.g. carrier gas in gas chromatography; fuel gas for flame ionisation detectors; carrier gas for reducing components in semiconductor manufacturing; fuel gas for FID/FPD (hydrogen 40% / helium 60%)

Also available: BIOGON® H E949
BIOGON® H flüssig E949
Wasserstoff 3.0
Wasserstoff 3.8
Wasserstoff 5.0
Wasserstoff 5.3
Wasserstoff 5.5 ECD
Wasserstoff 7.0
Wasserstoff flüssig 5.0
Wasserstoff flüssig LI-PUR® 6.0

Mixtures with other gases in defined compositions.

Disclaimer: The information provided in this product data is, to the best of our knowledge, accurate as of the date of publication. Linde GmbH reviews and updates this information constantly, and reserves the right to make amendments or additions to the information provided. Nevertheless, the accuracy of the data may have changed in the meantime. Linde GmbH does not guarantee and accepts no liability for the timeliness, accuracy and completeness of the information provided. It is the users responsibility to ensure that any legal requirements are met and that the products described herein are suitable for their intended purpose. The contents of this product data sheet are not contractual warranties of product's properties. Reproduction of information, text, images or data requires the prior approval of Linde GmbH. Reproduction of information, text, images or data requires the prior approval of Linde GmbH.

Linde GmbH
Gases Division, Seitnerstrasse 70, 82049 Pullach, Deutschland
Telefon: 0800-0530 530 0, Telefax: 0800-0530 530 11, www.linde-gas.de

Zur Sicherstellung eines hohen Niveaus der Kundenbetreuung werden Daten unserer Kunden wie z.B. Telefonnummern elektronisch gespeichert und verarbeitet.

Änderungen vorbehalten
Stand 10.07.2023