

# Hydrogen for fuel cells in trailer

H<sub>2</sub>

## Marking

CAS

Characterization acc. ADR

1333-74-0  
UN 1049 HYDROGEN,  
COMPRESSED, 2.1, (B/D)

## Essential properties

compressed gas, lighter than air, colorless, odorless, flammable

## Symbols of risks



## Physical Properties

molecular weight	2,0158 kg/kmol
gas density at 0°C and 1,013 bar	0,0899 kg/m <sup>3</sup>
density ratio to air	0,0695

For additional safety information see safety data sheet H2-067A

## Valves / Manifolds

Valve connection

No. 1, W 21,8 x 1/14 LH according to DIN 477-1 (200 bar)



Recommended Manifolds

Spectrotec

Specification / receptacles		Hydrogen for fuel cells in Trailer	
<b>Composition</b>			
H <sub>2</sub>	≥	99.97	Vol.-%
<b>Impurities</b>			
H <sub>2</sub> O	≤	5	ppm
halogenated HC	≤	0.05	ppm
Sulphur compounds	≤	0.004	ppm
HCOOH	≤	0.2	ppm
HCHO	≤	0.2	ppm
HC	≤	2	ppm
HC (as CH <sub>4</sub> )	≤	100	ppm
O <sub>2</sub>	≤	5	ppm
He	≤	300	ppm
Ar	≤	300	ppm
N <sub>2</sub>	≤	300	ppm
CO <sub>2</sub>	≤	2	ppm
CO	≤	0.2	ppm
NH <sub>3</sub>	≤	0.1	ppm

## Remarks

Hydrogen for use in fuel cells, according to the specifications of the DIN EN 17124 standard.