



**Westfalen**

## Product sheet Helium 4.6

Product name	Helium 4.6
Physical state	gaseous, compressed
Chemical sign	He
Chemical designation	He
Purity	99,996 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	olive brown (RAL 8008)

Minor components	Maximum values
Nitrogen	20,0 vol. ppm
Oxygen	5,0 vol. ppm
Moisture	5,0 vol. ppm
Hydrocarbons	1,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Helium 4.6 T10 RCyl	W06730110	steel	10,0 l	200,0 bar	1,9	DIN 477 Nr. 10	
Helium 4.6 T50 RCyl	W06730150	steel	50,0 l	200,0 bar	9,3	DIN 477 Nr. 10	
Helium 4.6 RBundle12	W06730312	steel	600,0 l	200,0 bar	111,6	DIN 477 Nr. 10	

Unless otherwise stated, these refer to filling pressure at 288,15K (15°C) and to content at 288,15K (15°C) and 0,981 bar.

### Typical applications

- in metrology
- in gas chromatography

### Physical data

operating figures	Molar mass	4,00 g mol <sup>-1</sup>
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Physical data		
Liquid State	Heat of Evaporation	20,42 kJ kg <sup>-1</sup>
	Liquid Density	125 kg m <sup>-3</sup>
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,1482 J s <sup>-1</sup> m <sup>-1</sup> K <sup>-1</sup>
	Density Ratio to Air (at 288.15 K and 1.013 bar)	0,14
	Specific heat (at 298.15 K and 1.013 bar)	5,20 kJ kg <sup>-1</sup> K <sup>-1</sup>
	Density (at 273.15 K and 1.013 bar)	0,18 kg m <sup>-3</sup>
Critical Point	Temperature	5,2 (-268,0) K (°C)
	density	69,6 kg m <sup>-3</sup>
	Pressure	2,28 bar
Triple Point	Temperature	2,177 (-271,0) K (°C)
	Vapour Pressure	0,051 bar
	Heat of Fusion	3,49 kJ kg <sup>-1</sup>

All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

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