



Product sheet Carbon monoxide 4.7

Product name	Carbon monoxide 4.7
Physical state	gaseous, compressed
Chemical sign	CO
Chemical designation	Carbon monoxide
Purity	99,997 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	zinc yellow (RAL 1018)

Minor components	Maximum values
Oxygen + nitrogen + argon	25,0 vol. ppm
Hydrogen	1,0 vol. ppm
Moisture	3,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Carbon monoxide 4.7 T10 RCyl Alu	S072201105	aluminum	10,0 l	120,0 bar	1,2 m ³	DIN 477 No. 5 (1LH)	
Carbon monoxide 4.7 T10 RCyl Alu 200 b	S0722011058	aluminum	10,0 l	200,0 bar	2,0 m ³	DIN 477 No. 5 (1LH)	

Unless otherwise stated, these refer to filling pressure at 288,15K (15°C) and to content at 288,15K (15°C) and 1,013 bar.

Typical applications

- as a low-calorific fuel gas for porcelain manufacture
- as a component in gas synthesis
- as a component for carbonylation in organic chemistry
- as a reductive component for catalyst regeneration

Physical data

operating figures	Molar mass	28,01 g mol ⁻¹
	Ignition Range in Air	10,9-76 Vol.-%



Physical data		
	Calorific Value to DIN 51850	12633 kJ m ⁻³
Liquid State	Heat of Evaporation	215,2 kJ kg ⁻¹
	Liquid Density	788,6 kg m ⁻³
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0241 J s ⁻¹ m ⁻¹ K ⁻¹
	Density Ratio to Air (at 288.15 K and 1.013 bar)	0,97
	Specific heat (at 298.15 K and 1.013 bar)	1,04 kJ kg ⁻¹ K ⁻¹
	Density (at 273.15 K and 1.013 bar)	1,23 kg m ⁻³
Critical Point	Temperature	132,91 (-140,2) K (°C)
	density	301,0 kg m ⁻³
	Pressure	34,99 bar
Triple Point	Temperature	68,1 (-205,1) K (°C)
	Vapour Pressure	0,1535 bar
	Heat of Fusion	29,9 kJ kg ⁻¹

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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