



Westfalen

Product sheet Dinitrogen monoxide for medical applications

Product name	Dinitrogen monoxide for medical applications
Physical state	liquefied under pressure
Chemical sign	N ₂ O
Chemical designation	N2O
Properties	see safety data sheet
Shoulder color	gentian blue (RAL 5010)

Minor components	Maximum values
Nitrogen monoxide + nitrogen dioxide	2,0 vol. ppm
Moisture	67,0 vol. ppm
Carbon monoxide	5,0 vol. ppm
Carbon dioxide	300,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Nitrous oxide f. med. pp. T03 RCyl nCSnC	A0872010352	steel	3,0 l	45,0 bar	2,2 m ³	DIN 477 Nr. 12	
Nitrous oxide f. med. pp. T10 RCyl 7,5kg	A08720110	steel	10,0 l	45,0 bar	7,5 kg	DIN 477 Nr. 11	
Nitrous oxide f. med. p. T50 RCyl 37,5kg	A08720150	steel	50,0 l	45,0 bar	37,5 kg	DIN 477 Nr. 11	

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

Dinitrogen monoxide for medical purposes is the tradename of the finished medicinal product. Dinitrogen monoxide for medical purposes complies in production and analysis with the requirements of the current version of the PhEur (European Pharmacopoeia).

Typical applications

- as per leaflet.



Physical data		
operating figures	Molar mass	44,01 g mol ⁻¹
Liquid State	Heat of Evaporation	376,14 kJ kg ⁻¹
	Liquid Density	1222,8 kg m ⁻³
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0016 kg m ⁻³
	Density Ratio to Air (at 288.15 K and 1.013 bar)	1,53
	Specific heat (at 298.15 K and 1.013 bar)	0,88 kg m ⁻³
	Density (at 273.15 K and 1.013 bar)	1,97 kg m ⁻³
Critical Point	Temperature	309,56 (36,4) K (°C)
	density	452,0 kg m ⁻³
	Pressure	72,45 bar
Triple Point	Temperature	182,3 (-90,9) K (°C)
	Vapour Pressure	0,878 bar
	Heat of Fusion	148,6 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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