

Marking

CAS-Number	10024-97-2
Characterization acc. ADR	UN 1070, Nitrous oxide, 2.2 (5.1) Class 2, 2 O

Cylinder Marking

shoulder:
blue (new)

Essential properties

Colourless, odorless, oxidizing, narcotic gas, liquified, heavier than air

Symbols of Risks

oxidizing

Physical Properties

molecular weight:	44,013 kg/kmol
gas density at 0°C and 1,013 bar:	1,9781 kg/m ³
density ratio to air:	1,5299
vapour pressure at 20°C:	50,599 bar

For additional safety information see Material-/safety data sheet No. 093 A (Distickstoffoxid)

Valves / Manifolds

Valve connection	DIN 477 Nr. 11: G 3/8
Recommended Manifolds	Spectrolab FM 61/FM 62 Spectrocem FE 61/FE 62

**Specifications / Forms of delivery**

		technical	2.5	UHP	
Composition					
N ₂ O	>	99,0	99,5	99,999	Vol.-%
Impurities					
CO ₂	<	-	-	1	ppmv
CO	<	-	-	1	ppmv
O ₂ / N ₂ / Ar	<	-	5000	-	ppmv
H ₂ O	<	-	10	1	ppmv
CH ₄	<	-	-	0,1	ppmv
O ₂ + Ar	<	-	-	1	ppmv
N ₂	<	-	-	5	ppmv
NO	<	-	-	1	ppmv
NO ₂	<	-	-	1	ppmv
NH ₃	<	-	-	5	ppmv
Cylinders / Contents					
F 10 Alu		-	-	7,5	kg
F 10		8,0	8,0	-	kg
F 40		30,0	30,0	-	kg
F 50		-	37,5	37,5	kg