

Marking

CAS

Characterization acc. ADR

Cylinder Marking

7727-37-9
UN 1066 NITROGEN,
COMPRESSED, 2.2, (E)



Shoulder color: black

Essential properties

compressed gas, lighter than air, colorless, odorless

Symbols of risks



Physical Properties

molecular weight	28,0134 kg/kmol
gas density at 0°C and 1,013 bar	1,250 kg/m ³
density ratio to air	0,9671

For additional safety information see safety data sheet *-N2-089A

Valves / Manifolds

Valve connection

200 bar: acc. to national regulations
300 bar: ISO 5145 Nr. 1: W 30 x 2

Recommended Manifolds

Spectrolab FM 51 / FM 52exact
Spectrochem FE 51 / FE 52exact
300 bar pressure regulator under same designation available



Specification / receptacles						
		Nitrogen 5.0	Nitrogen 5.5	Nitrogen ECD	Nitrogen 6.0	
Composition						
N ₂ incl. noble gases	≥	99.999	99.9995	99.9995	99.9999	Vol.-%
Impurities						
O ₂	≤	2	0.5	0.5	0.3	ppmv
H ₂	≤	-	0.5	-	0.1	ppmv
HC (as CH ₄)	≤	0.1	0.1	0.1	0.1	ppmv
H ₂ O	≤	3	2	2	0.5	ppmv
CO + CO ₂	≤	-	0.5	0.1	0.3	ppmv
halogenated HC	≤	-	-	1	-	ppbv

Remarks

Applications:

Carrier gas in gas chromatography
Zero gas for analytical applications, especially in automotive industries
Component of gas mixtures for CO₂-lasers
Inert gas in chemical and pharmaceutical industries

Content in m³ at 15°C, 1 bar