

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



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

Description

Colourless, odorless, inert gas. In closed rooms the breathing air is displaced (danger of asphyxiation!); no warning symptoms!

Materials

Cylinders and valves: any usual materials

Seals: PTFE, PCTFE, PVDF, PA, PP, IIR, NBR, CR, FKM,Q, EPDM

Physical Properties			
molecular weight	28,0134 kg/kmol	vapour pressure at 20°C	
critical point		gas density at 0°C and 1,013 bar	1,250 kg/m ³
temperature	126,260 K	density ratio to air	0,9671
Pressure	34,10 bar	gas density at 15°C and 1 bar	1,1694 kg/m ³
density	0,3140 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15°C, 1 bar)	0,691
temperature	63,150 K	virial coefficient	
Pressure	0,1246 bar	Bn at 0°C	-0,47*10 ⁻³ bar ⁻¹
boiling point		B30 at 30°C	-0,17*10 ⁻³ bar ⁻¹
temperature	77,36 K; -196 °C	gaseous state at 25°C and 1 bar	
liquid density	0,8085 kg/l	specific heat capacity cp	1,040 kJ/kg K
evaporation heat	198,6 kJ/kg	thermal conductivity	256,6*10 ⁻⁴ W/m K
		dynam. viscosity	17,9*10 ⁻⁶ Ns/m ²