

Nitrous Oxide (N₂O, R-744A)

CAS: 10024-97-2

EC: 233-032-0

UN: 1070; 2201 (Refrigerated liquid)



Nitrous Oxide IG N2.0					
Purity (%)	99				
Impurities (ppm)	CO 10	NO 3	H ₂ O 50	CO ₂ 100	
Typical Filling Pressure	15°C: 46 bar(a)				

Characteristics

- Colourless and odourless gas.

Health Risks

- Asphyxiant at high concentrations.

Transport

ADR Class 2, 20



DOT Class 2,2



Product Description	Size (kg)	Grade	Material Number	Valve Connection	Recommended Regulator
Nitrous Oxide IG N2.0	31,3	Instrument Grade	508503-RC-C	BS 341 No. 13 11/16" x 20 tpi RH Ext	W019150 or W019250

Physical Data

Molecular Weight	44,013
Boiling Point at 1,013 bar [°C]	-88,48
Density at 1,013 bar, 20°C [kg/m ³]	1,843
Vapour Pressure at 0°C [bar]	-
Vapour Pressure at 20°C [bar]	-
Flammability Range in Air [% volume]	Non-combustible
Specific Volume at 1,013 bar, 20°C [m ³ /kg]	0,543

Material Compatibility

Aluminium[®] N[®] Buna[®] Brass[®] Butyl[®] rubber[®] steel[®] Carbon[®] Copper[®] Neoprene[®] Nylon[®] Polythene[®] PVC[®] Stainless[®] Teflon[®] Viton[®]

