DATA SHEET

MEDICINAL OXYGEN

PROPERTIES

PHYSICAL & CHEMICAL

Molar mass: 31.9988 g/mol
Melting point: -219°C
Boiling point: -183°C
Density of the gas phase (1.013 bar and 15°C): 1.354 kg/ma
Density of the liquid phase (1.013 bar at boiling point): 1.1415 kg/l
Gas density (1.013 bar at boiling point): 4.475 kg/m
Latent heat of fusion (1.013 bar at triple point): 13.9 kJ/kg
Latent heat of vaporization (at 1.013 bar boiling point): 212.98kJ/kg
Critical temperature: -118.6°C
Critical pressure: 50.43 bar
Compressibility factor (Z) (1.013 bar and 15°C): 0.994
Concentration in air: 20.94% vol.

APPLICATIONS :

Health: Assisted breathing
A vital distress
Poisoning from fire smoke or carbon monoxide
A decompression accident secondary to a dive or work in a hyperpressure environment (tunnel boring machines).
A SpO^2 measurement that indicates a value <94%
A painful crisis in a victim who has a history of sickle cell anemia.
Laboratories and analyses: Oxygen is used to calibrate trace impurity analyzers, safety detectors, environmental control analyzers, working atmosphere control analyzers.

TECHNICAL INFORMATION

Purity :	Impurities :		
O2	CO	CO2	H2O
≥ 99.5%	≤ 5 ppm	≤ 300 ppm	≤ 67 ppm

European Pharmacopoeia

Conditioning :

B2	B5	B10	B50
0.5 m^3	1 m^3	1.5 m^3	8 m^3

Rayan

" We are what we repeatdly do , Excellence therefore is not an act but a habit " Dr Tazi