

Air Synthetic instrument

5.0

PROPERTIES

PHYSICAL & CHEMICAL



**OPEN
24/7**



Molar mass :

N2: 28.0134 g/mol, O2: 31.9988 g/mol

Melting point: N2: -210°C, O2: -219°C

Boiling point: N2: -195.9°C, O2: -183°C

Density of the gas phase (1.013 bar and 15°C):

N2: 1.185 kg/ma, O2: 1.354 kg/ma

Density of the liquid phase (1.013 bar at boiling point):

N2: 0.8082 kg/ma, O2: 1.1415 kg/l

Gas density (1.013 bar at boiling point):

N2: 4.614 kg/m, O2: 4.475 kg/m

Latent heat of fusion (1.013 bar at triple point):

N2: 25.73 kJ/kg, O2: 13.9 kJ/kg

Latent heat of vaporization (at 1.013 bar boiling point):

N2: 198.38 kJ/kg, O2: 212.98kJ/kg

APPLICATIONS :

The main applications or activities requiring high purity Synthetic Air are:

- Air quality analysis, analytical chemistry,
- Atomic Adsorption Spectrometry (AAS),
- calibration gas mixtures, combustion oxidation, emissions monitoring, environmental monitoring,
- Flame Ionization Detection (DIF), flame photometry,
- Gas Chromatography (GPC), calibration of control instruments, zero adjustment for analyzers.

TECHNICAL INFORMATION

Purity % by volume:		Impurity:			
N ₂	O ₂	CnHm	CO	CO ₂	H ₂ O
Qs	20% +/-5	≤ 0.1 ppm	≤ 1 ppm	≤ 1 ppm	≤ 3 ppm

Conditioning :

Air
B50

