

# Industrial Nitrogen

## PROPERTIES

### PHYSICAL & CHEMICAL



Molar mass: 28,0134 g/mol  
 Melting point: -210°C  
 Boiling point: -195.9°C  
 Density of the gas phase (1.013 bar and 15°C): 1.185 kg/m<sup>3</sup>  
 Density of the liquid phase (1.013 bar at boiling point): 0.8082 kg/m<sup>3</sup>  
 Gas density (1.013 bar at boiling point): 4.614 kg/m<sup>3</sup>  
 Latent heat of fusion (1.013 bar at the triple point): 25.73 kJ/kg  
 Latent heat of vaporization (at 1.013 bar boiling point): 198.38 kJ/kg  
 Critical temperature: -147°C  
 Critical pressure: 33.999 bar  
 Compressibility factor (Z) (1.013 bar and 15°C): 0.9997  
 Concentration in the air: 78.08% vol.



**OPEN  
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### APPLICATIONS :

- Air quality monitoring
- Analytical Chemistry
- Calibration Gas Mixtures
- Electronics and semiconductor
- Emission control
- Environmental monitoring
- Flame photometry, Performance (HPLC), CPG .
- Inerting, laboratory measuring instruments, emissions test.

### INFOMATION TECHNIQUE

| Purity :       | Impurities :   |         |                 |                  |
|----------------|----------------|---------|-----------------|------------------|
| N <sub>2</sub> | O <sub>2</sub> | CO      | CO <sub>2</sub> | H <sub>2</sub> O |
| ≥ 99.50%       | ≤ 50 ppm       | ≤ 5 ppm | ≤ 300 ppm       | ≤ 67 ppm         |

### Conditioning :

| GIN | LIN                  |
|-----|----------------------|
| B50 | Cryogenic mobil tank |

