



ALMA STREET,
PEASLEY CROSS,
ST HELENS, MERSEYSIDE.
WA9 3AR

Liquid Nitrogen

Norgas specialise in the supply of Liquid Nitrogen to small scale users, who require the product on an infrequent basis. School or college lectures, and shrink fitting being the most common applications.

We generally supply a 5 Litre flask, which is sufficient for most of our customers requirements. We also have a 500 Litre vessel which is skid mounted and can be easily moved with a forklift truck, thus enabling larger jobs to be tackled.

We also offer a fill service to customers who possess their own storage vessels.

Price is dependant on quantity.

Properties of nitrogen

Nitrogen is unreactive and liquid nitrogen is very cold. These properties are vital to a wide range of industrial applications.

Properties of nitrogen

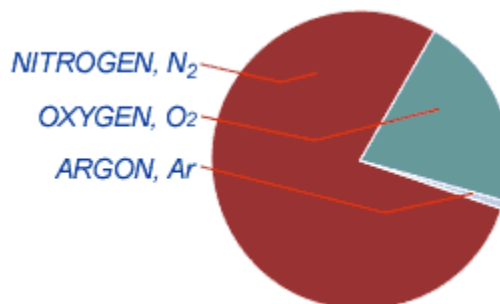
Symbol:	N
Atomic number:	7
Relative atomic mass:	14
Electronic configuration:	$1s^2 2s^2 2p^3$
Molecular formula:	N_2
Relative molecular mass:	28
Boiling point:	77 K
Key properties:	Unreactive gas, Liquid Nitrogen is very cold.
Some major uses:	Freezing food, shrink-fitting metal parts, producing chemicals safely, food packaging, ammonia manufacture.
Discoverer:	Daniel Rutherford (1772)

Nitrogen in the air

The air around us is a mixture of many different gases, but just three elements form nearly all of it. These are nitrogen, oxygen and argon. The table and pie chart show the amount of these gases in dry air.

Table showing % gas in the air

Gas	% in the air
Nitrogen, N_2	78.08
Oxygen, O_2	20.95
Argon, Ar	0.93
Other gases	0.04





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Nitrogen is usually stored as a liquid at very low temperatures. One volume of liquid nitrogen gives 651 volumes of gaseous nitrogen at 100 000 Pa and 273 K.

It would be dangerous to use liquid nitrogen without taking proper safety precautions like using special gloves, jackets and safety glasses.